

**BY ORDER OF THE
SECRETARY OF THE AIR FORCE**

**AFMS 44EO
24 MARCH 2000**



Manpower Standard

OPERATIONS FLIGHT

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OPR: AFMIA/MITT (MSgt Will Phelps)

Certified by: AFMIA/MIR (Lt Col Philip Dove)
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This Air Force Manpower Standard (AFMS) quantifies the manpower required to accomplish the tasks described in the process oriented description for varying levels of workload. The Operations Flight operates, maintains, repairs, and constructs installation real property with an in-house military and civilian work force and recurring and nonrecurring service contracts. The Operations Flight, with its military personnel, provides the Civil Engineer (CE) squadron its core capability and recovery of bases for projection of aerospace power. The civilian work force provides the sustaining force necessary to maintain operations after deployment of military forces. This AFMS defines the manpower allowed to support an Objective Wing Operations Flight at Air Mobility Command, Air Combat Command, US Air Forces Europe, Pacific Air Forces, Air Education and Training Command, 11th Wing, Air Force Academy, Air Force Space Command, Air Force Special Operations Command, and Air Force Materiel Command locations. It does not apply to Air National Guard or Air Force Reserve bases. This AFMS does not apply to flights that have been cost compared (OMB Circular A-76). Bases should develop negative variances to account for processes not performed or performed by contract and positive variances for processes performed but not included in the AFMS. This AFMS does not apply to locations on the base closure list. This AFMS applies to peacetime operations only. This AFMS was developed in accordance with AFMAN 38-208, *Air Force Management Engineering Program (MEP)*. Send comments and suggested improvements on AF Form 847, **Recommendation for Change of Publication**, through channels, to AFMIA/MIR, 550 E Street East, Randolph AFB, Texas 78150-4451.

SUMMARY OF REVISIONS

HQ USAF/XPMR approved revision of this AFMS before functional processes are reengineered as directed by Annual Planning and Programming Guidance (APPG). This AFMS is updated to incorporate changes to the environment AFS, including a name change and scope of responsibility, and a restructuring of the Operations AFS, formerly Force Management (see paragraph 4.4.3.8 in the basic manuscript and Facility Management and Heavy Repair manpower tables at Attachment 3). Paragraph 3.4 in the basic manuscript was reformatted to comply with the standard format for the workload factor paragraph in AFMSs. Revisions are identified with a star (★).

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1. Responsibility Statements.

- 1.1. Material Acquisition Element. Provides logistics manpower to acquire and manage the CE vehicle fleet, industrial equipment, tools, and supplies. Duties include material acquisition, warehouse management, and the operation and management of the CE Supply Store and the base Self-Help Store.
- 1.2. Maintenance Engineering Element. Provides engineering expertise for the Operations Flight, support of infrastructure/facility project review, program management, non-design drafting, service and utility contract management, and work analysis/methods improvement.
- 1.3. Facility Maintenance Element. Provides single-point customer support and inspection, maintenance, repair, and modification of real property within established zones. Trains customers on interfacing with CE for their facility maintenance requirements and provides craft and contingency training for zone personnel.
- 1.4. Infrastructure Support Element. Maintains aircraft arresting, exterior electrical, airfield lighting, alarm, sewage collection, water distribution, natural gas distribution, liquid fuel, grounding and cathodic protection, and generator systems.
- 1.5. Heavy Repair Element. Accomplishes the majority of in-house large and multicraft work orders and all pavement and equipment work. Includes facility renovation and maintenance alteration projects. Includes all pavements, airfields, roads and sidewalks, sweeping, entomology, and equipment operation and repair.

2. Core Composition.

- 2.1. Core Manpower Requirement. 159
- 2.2. Core Manpower Range. 78 - 866
- 2.3. Programming Factor. Total Square Feet of Floor Space

3. Standard Data.

- 3.1. Approval Date. April 1993.
- 3.2. Man-hour Data Source. Workshop Measurement and Historical Documents - Functional Model
- 3.3. Man-hour Equation.
 - 3.3.1. For all Standard Operations Flights at Objective Wing Locations. Use the following equation:

$$Y = 6221 + 11.44(X1) + 5.340(X2) + .8403(X3) + 88.273(X4)$$

3.3.2. Exceptions to equation in paragraph 3.3.1. While the Operations Flight at the following locations is part of an Objective CE Squadron, it does not perform all flight processes in the same manner as the normal Objective Flight. Consequently, the equation in paragraph 3.3.1 does not apply. The equations for these flights are expressed in terms of $Y = a$, where "a" is the constant manpower (including core and variances) allowed to the flight to perform its nonstandard processes.

Cheyenne Mountain	$Y = 137$	Goodfellow	$Y = 105$
Columbus	$Y = 146$	Laughlin	$Y = 141$
Falcon	$Y = 76$	Reese	$Y = 115$

3.3.3. For United Kingdom (UK) Bases. Use the equation in paragraph 3.3.1 to determine total requirements. Funding of these requirements will be by a combination of US and UK resources.

3.3.4. Guide for Distribution of Manpower. The equation in paragraph 3.3.1 yields the total core man-hour requirement for the Operations Flight. Base-level CE management, with the approval of the MAJCOMs, has the authority to determine the distribution of the total core Operations Flight manpower requirement among the elements. The following equations have been provided as a guide for distribution of earned Operations Flight manpower among the Operations Flight elements. **NOTE:** "X" equals Operations Flight manpower, and "Y" equals element manpower. The sum of the element equations cannot exceed the manpower earned by the basic equation. If adjustments are required to make the totals match, consult with CE managers to determine which elements are to be adjusted.

3.3.4.1. Operations Management. $Y = 4$ manpower requirements.

3.3.4.2. Material Acquisition Element. $Y = -.1033 + .05347X$.

3.3.4.3. Maintenance Engineering Element. $Y = -.2079 + .04852X$.

3.3.4.4. Facility Maintenance Element. $Y = -2.498 + .3904X$.

3.3.4.5. Infrastructure Support Element. $Y = -2.762 + .2590X$.

3.3.4.6. Heavy Repair Element. $Y = -3.889 + .2454X$.

★3.4. Workload Factors.

3.4.1. X1.

3.4.1.1. Title. Weighted Total Square Feet of Floor Space.

3.4.1.2. Definition. The weighted floor space, expressed in thousands (KSF), for facilities (including military family housing (MFH)) located on the primary installation and at off-base sites with a similar standard of living (see paragraph 3.4.1.3.2). It is computed by determining the base's total square feet of floor space, including MFH, in thousands then multiplying by the applicable Base Square Footage Weighting Factor (BSFWF) from Attachment 7. The BSFWF was computed from labor intensity weights set by the MAJCOM Integration Review Team. These weights separate Real Property Codes (RPC) into three categories and were applied to Facility/Land Summary data and MAJCOM-reported data to derive base-specific factors. This table will be periodically updated as directed by AFCESA/CEOM.

3.4.1.3. Sources.

3.4.1.3.1. Real Property Space Summary by Condition Code Report, PCN: SF100-164, or the comparable WIMS document that reports base square footage to MAJCOM headquarters, divided by 1000 and multiplied by the BSFWF, in Attachment 7.

3.4.1.3.2. At off-base sites not receiving the same degree of maintenance as the main base, adjustments to the site's square footage may be required. MAJCOM Civil Engineer and Manpower staffs should develop a mutually agreed-to factor, commensurate with the level of CE maintenance and repair activity at the site, to adjust the site's square feet count. For example, after considering travel to and from the site, and the maintenance that occurs at the site, a factor of .50 would indicate the site receives approximately 50 percent of the level of service per square foot that the main base receives per square foot. The factor is multiplied times the site's square feet count, and the result is added to the count for the main base before dividing by 1000 and multiplying by the BSFWF as explained in paragraph 3.4.1.3.1.

3.4.2. X2.

3.4.2.1. Title. The Number of Facilities.

3.4.2.2. Definition. The number of facilities located on the primary installation and at off-base sites with a similar standard. This does not include MFH units.

3.4.2.3. Source. The number of facilities can be obtained from the summary page of the USAF Real Property Inventory Detail List SAF-MII(A) (7115). This report is maintained in the Resources Flight.

3.4.3. X3.

3.4.3.1. Title. The Number of Military Family Housing Units.

3.4.3.2. Definition. The total number of government owned or leased military family housing units. This does not include trailer spaces managed by the housing flight. One unit equals a single family quarters and a duplex equals two.

3.4.3.3. Source. DD Form 1410, **Family Housing Inventory and Occupancy**, block 18, sum of columns F and G.

3.4.4. X4.

3.4.4.1. Title. The Number of General Officer Quarters (GOQ).

3.4.4.2. Definition. The total number of general officer quarters occupied on the installation.

3.4.4.3. Source. The number of GOQs can be obtained from the report PCN Number SF022-001, Real Property Inventory by Category Code. The category code for general grade officer is "G". The number of occupied GOQs can be obtained from the Housing Flight personnel.

3.5. Points of Contact.

3.5.1. AFMIA Representative. AFMIA/MIR, DSN 487-5909.

3.5.2. Functional Representative. AFCESA/CEOM, Mr. Andy Jackson, DSN 523-6401.

4. Application Instructions. If manpower for your location is not specified in paragraph 3.3.2, use the following procedure:

4.1. "Adjustment or Ramp" Factors. The equations contained in all of the CE Objective Flight AFMSs were developed in such a manner that their simultaneous application will result in a total reduction at all affected bases equal to that required by DMRD 967. The DMRD 967 reductions were phased in through FY 97. Consequently, "Adjustment or Ramp" factors that account for the year-to-year phased reductions to the Operations and Engineering Flights are no longer required during application.

4.2. Step 1. Determine Element Core Requirements.

4.2.1. Determine Element Manpower. Estimate specific element core manpower using the applicable equation in paragraph 3.3.4. The element equations are provided as guides since local work requirements may require a different element manpower allocation as determined by the base CE. To determine the element manpower, first compute the total Operations Flight core man-hours using the equation in paragraph 3.3.1. Divide these core man-hours by the applicable man-hour availability factor (MAF). This yields the Operations Flight core manpower, which is the "X" value for the element equations.

4.2.2. Determine Contract Manpower Equivalents (CMEs). Determine CMEs by following the instructions in Attachment 6. Subtract these CMEs from the element's core manpower requirement.

4.2.3. Determine Grade and Skill Requirements. Determine grade and skill requirements for the element's core manpower by following the instructions in paragraph 4.4.

4.3. Step 2. Determine Element Variance Requirements.

4.3.1. Determine The Element's Variance Man-hours. Using Attachment 4, divide the individual variance man-hours by the appropriate MAF to determine variance manpower requirements.

NOTE: Care should be used in this calculation. Rounding up to the next whole number may overstate requirements. The total variance manpower requirement should not exceed the sum total of variance man-hours divided by the MAF.

4.3.2. Determine Total Element Requirement. Add the element's variance manpower requirements to its core manpower requirements to determine the total element manpower requirement.

4.4. Step 3. Skill and Grade Distribution.

4.4.1. Officer Authorizations. The number of core military officer positions for this flight is two. The CSAF approved additional officer (company grade) authorizations at the bases listed below. All other locations, where this AFMS applies, earn only two officers. The additional officer(s) does not add to the total size of the flight; rather replace civilian 32E3 requirements on a one-for-one basis (reference HQ USAF/CEO message, 221900Z Mar 94).

TOTAL OPS FLIGHT OFFICERS

Ramstein	4
Minot	3
Eielson	3
Elmendorf	3
Kunsan	3
Osan	3
Edwards	3
Eglin	3
Hill	3
McClellan	3
Robins	3

Wright-	3
Patterson	
Vandenberg	3
Tinker	3

4.4.2. Determine Skill and Grade Requirements. The manpower tables address the manpower requirements for core processes only. Due to the unique nature of the variances, skill and grade requirements must be determined on a case-by-case basis. Historical manning, career progression, military/civilian mixes, and Unit Type Code (UTC) posturing requirements must all be considered. However, the manpower earned for variances A4.3, Manned Heating Plants; A4.4, Manned Wastewater Plants; and A4.5, Manned Water Treatment Plants, should be civilian. Any difference between AFMS requirements and available funding should be treated as deferred and other funding sources explored.

4.4.3. For Standard Flights. Those flights not listed in paragraph 3.3.2:

4.4.3.1. Element Manpower Tables. Attachment 3 contains six element manpower tables for the Operations Flight. These tables provide the recommended skill and grade distribution without consideration for the variances.

4.4.3.2. Exceptions. Except as noted in paragraph 4.4.1, this flight earns only two military officers; all other 32EX positions will be filled by civilians.

4.4.3.3. Operations Management. This table is fixed at four requirements. However, the administrative workload is estimated to be 1% of the Operations workload. At locations where the Operations Flight manpower exceeds 250, management may elect to add another Information Management Journeyman by transferring an authorization at the same grade from another element. The CE Ops Manager is a civilian position. A lieutenant colonel may be substituted for the major at locations that have an O-6 authorized as the Base Civil Engineer (BCE).

4.4.3.4. Material Acquisition Element. The Chief of Material Acquisition is a civilian position. The vehicle control workload supports a designated Vehicle Control NCO (VCNCO), starting at 13 authorizations; however, local CE management has the option to designate a dedicated VCNCO at any manpower level by substituting a 2T1XX for a 2S0XX at the same grade. This may also be done at larger bases where the VCNCO duties exceed one authorization. It is also optional to use a 3E2X1 in lieu of a 2T1XX for VCNCO duties.

4.4.3.5. Maintenance Engineering (ME) Element. The supervisory position for the element can be either military or civilian. All other engineering positions (32E3) in this element are normally filled by civilians. Quality Assurance Evaluators (QAEs) responsibility for service and non-recurring contracts is assigned to ME. Today's trend to outsource more CE functions drives the need for increased QAEs. AFI 63-504,

Quality Assurance Evaluator Program, provides a generic guide for determining QAE requirements. Commanders can use this model along with the AFMS flexibility (reference paragraph 4.2.1, Determine Element Manpower) to set their QAE requirement. Commanders can also realign manpower authorizations within the Operations Flight to meet their QAE requirements. As workload in the other Operations elements is contracted out and workload declines, transfer manpower authorizations to ME to perform the QAEs oversight.

4.4.3.6. Facility Maintenance Element. The supervisory position for the element can be either military or civilian. The manpower table for this element provides the recommended skill and grade distribution for only one zone, with the exception of the SMSgt, who is the Facility Maintenance supervisor. For multiple zones, use the skill and grade mixes determined at the different increments depending on the zone size. The 3EX7X MSgt is provided to earn a zone manager from any of the skills represented on the table. At locations that earn more than 100 total authorizations in Facility Maintenance, a CMSgt is earned in lieu of a SMSgt.

4.4.3.7. Infrastructure Support Element. The Chief of Infrastructure Support is a civilian position. The 3EX9X is provided for supervision and career progression for people in those AFSCs listed on this table.

★4.4.3.8. Heavy Repair Element. The first CE Squadron CMSgt position is earned in Heavy Repair and may be assigned the additional duty of advisor to the Commander. (In larger squadrons, CMSgts may be earned in other flights and elements and provide alternate sources for the additional duty.) The manpower table for Heavy Repair has three entries for MSgt. The 3EX7X is provided for supervision and career progression for those AFSCs on this table that do not have a designated MSgt position. Local or command guidance may be developed to direct the filling of Facility Maintenance requirements at the expense of Vertical Repair. If this is done, ensure that the skill and grade distribution for the remaining positions comes from the column corresponding to the equation results before the authorizations are transferred to Facility Maintenance. Military 3E473s earned in this element will be based on the mobility requirements (i.e., the CE Blue-Suit Requirement Study). The Worldwide Civil Engineer Conference approved the Environmental Implementation Plan, which established that the environmental AFS will be authorized in the Operations Flight. The environmental AFS will no longer be authorized in the Environmental Flight. PACAF and USAFE were granted an additional one year, 1 October 00, to implement. Additionally, the August 1999 Program Review Committee meeting renamed the environmental AFS to “environmental controls.”

4.4.4. For Nonstandard Flights. Skill and grade requirements for nonstandard flights (those listed in paragraph 3.3.2) require special handling. As with variances, historical manning, career progression, military/civilian mixes, and UTC posturing requirements must all be considered.

5. Statement of Conditions.

5.1. The following work is not included in the core equation. If this work has been accounted for through variances, it will be listed in Attachment 4; otherwise, the work may be accomplished by contract without Contract Manpower Equivalent (CME) offset for earned manpower.

5.1.1. MFH maintenance

5.1.2. Custodial services

5.1.3. Refuse collection

5.1.4. Grease/oil trap, duct, tank, and sewer cleaning

5.1.5. Grounds maintenance

5.1.6. Hangar door maintenance

5.1.7. Appliance maintenance (CONUS)

5.1.8. Office equipment and computer maintenance

5.1.9. Lifting device maintenance (elevators, hoists, etc.)

5.1.10. Multicraft work orders above 250 man-hours with more than three skills

5.1.11. Airfield marking and rubber removal

5.1.12. Street and parking lot marking

5.1.13. Routine asbestos neutralization and removal

5.1.14. Motor rewind

5.2. The following DMRD 967 initiatives were implemented:

5.2.1. Zonal maintenance

5.2.2. Multiskilled military work force

5.2.3. Cradle-to-grave design and construction project management

5.2.4. Streamlined production-oriented organization

5.2.5. Maintenance engineering

5.3. Other management initiatives or activities associated with the core base.

5.3.1. A Government-Operated Civil Engineer Supply Store (GOCESS) (i.e., a CE supply store operated by in-house resources)

5.3.2. Work Information Management System (WIMS) and Civil Engineer Material Acquisition System (CEMAS) implemented to control documentation

5.3.3. An active Simplified Acquisition Base Engineering Requirements (SABER) program

5.4. All processes and variances include indirect man-hours.

5.5. This flight normally operates eight hours a day, five days a week. However, some elements may have portions of this work force on varying schedules.

5.6. The man-hour equation can be used to estimate the CE manpower impact of new construction.

5.6.1. Categorize the new floor space as either high, average, or low labor requirements (examples are medical, administrative, or warehouse, respectively).

5.6.2. Multiply the square footage of the new facility times its respective weighting factor: high - .47, average - .33, or low -.20.

5.6.3. Divide by 1000 and multiply the result by the "b-value" for X1 in the equation in paragraph 3.3.1.

5.7. Manpower estimates for the nonstandard flights (paragraph 3.3.2) were made by MAJCOM Integration Review Team 2 and approved by the AF/CE. Estimates include core and variance workload as well as indirect man-hours.

DOUGLAS W. CARROLL, Lt Col, USAF
Chief, Requirements Determination &
Utilization Division

Attachments

1. Glossary of References and Supporting Information
2. Functional Statement/Process Oriented Descriptions
3. Manpower Tables
4. Variances
5. Process Analysis Summary
6. CME Instructions
7. Base Square Footage Weighting Factor (BSFWF)

Attachment 1**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

- AFI 38-201, *Determining Manpower Requirements*
AFI 63-504, *Quality Assurance Evaluator Program*
AFMAN 38-208, *Air Force Management Engineering Program (MEP)*

Abbreviations and Acronyms

AFMS	Air Force Manpower Standard
APPG	Annual Planning and Programming Guidance
BCE	Base Civil Engineer
BCP	Base Comprehensive Plan
BEEF	Base Engineer Emergency Force
BSFWF	Base Square Footage Weighting Factor
CASS	Consolidated Aircraft Support System
CE	Civil Engineer
CEMAS	Civil Engineer Material Acquisition System
CME	contract manpower equivalent
COCESS	contract-operated supply stores
DIFM	due-in-for maintenance
EMCS	Energy Management Control System
GOCESS	Government-Operated Civil Engineer Supply Store
GOQ	general officer quarters
GSU	geographically separated unit
HAZMAT	hazardous material
MAF	man-hour availability factor
ME	Maintenance Engineering
MEP	Management Engineering Program
MFH	military family housing
MIR	MAJCOM Integration Review
QAE	Quality Assurance Evaluator
RPC	Real Property Codes
RWP	Recurring Work Program
SABER	Simplified Acquisition Base Engineering Requirements
SCADA	Supervisory Control and Data Acquisition
SCPS	Survivable Collective Protection System
UTC	Unit Type Code
VCNCO	Vehicle Control NCO
WIMS	Work Information Management System
WLF	workload factor
WRM	War Readiness Materials

Attachment 2

FUNCTIONAL STATEMENT/PROCESS ORIENTED DESCRIPTIONS

The attached Functional Statement and Process Oriented Descriptions describe the tasks needed to support Operations Flights during peacetime operations.

Appendices

- A - Operations Management
- B - Material Acquisition
- C - Maintenance Engineering
- D - Facility Maintenance
- E - Infrastructure Support
- F - Heavy Repair

Attachment 2, Appendix A**FUNCTIONAL STATEMENT****OPERATIONS MANAGEMENT**

Responsible for all activities required to operate, maintain, repair, and construct installation real property using an in-house military and civilian work force and recurring and nonrecurring service contracts. Manages the Material Acquisition, Maintenance Engineering, Facility Maintenance, Infrastructure Support, and Heavy Repair Elements.

Attachment 2, Appendix B**PROCESS ORIENTED DESCRIPTION****MATERIAL ACQUISITION****A1.1. RECEIVES TRAINING.**

A1.1.1. RECEIVES CONTINGENCY TRAINING.

 A1.1.1.1. RECEIVES CATEGORY 1, CLASSROOM TRAINING.

 A1.1.1.2. RECEIVES CATEGORY 2, HANDS-ON TRAINING.

A1.1.2. RECEIVES CERTIFICATION TRAINING:

 A1.1.2.1. RECEIVES TRAINING ON HAZARDOUS MATERIAL HANDLING (CAT 1).

 A1.1.2.2. RECEIVES TRAINING ON SUPPLY (CAT 1).

A1.2. PERFORMS LOGISTIC SUPPORT.

A1.2.1. PERFORMS MATERIAL ACQUISITION.

 A1.2.1.1. PROCESSES REQUISITION.

 A1.2.1.2. RECEIVES MATERIAL.

 A1.2.1.3. MANAGES HOLDING AREA.

 A1.2.1.4. MANAGES GOVERNMENT-OPERATED CIVIL ENGINEERING SUPPLY STORE (GOCESS).

 A1.2.1.5. MANAGES RESIDUAL STORAGE.

 A1.2.1.6. PICKS UP PROPERTY FROM VENDOR.

 A1.2.1.7. TRACKS MATERIAL.

 A1.2.1.8. CLOSES OUT WORK ORDER.

 A1.2.1.9. MANAGES HAZARDOUS MATERIAL PROGRAM.

 A1.2.1.10. MAINTAINS CIVIL ENGINEERING MATERIAL ACQUISITION SYSTEM (CEMAS) DATA BASE.

 A1.2.1.11. ACCOMPLISHES POST-POST TRANSACTION.

 A1.2.1.12. MANAGES DUE-IN-FOR MAINTENANCE (DIFM) ITEMS.

 A1.2.1.13. MONITORS SHOP STOCK.

 A1.2.1.14. COORDINATES ADJUSTED LEVELS.

 A1.2.1.15. PROVIDES CUSTOMER TRAINING.

 A1.2.1.16. ACCOMPLISHES END-OF-YEAR CLOSEOUT.

 A1.2.1.17. ASSISTS COST CENTER EQUIPMENT CUSTODIANS.

 A1.2.1.18. MANAGES BASE SERVICE STORE AUTHORIZED USER LIST.

A1.2.2. MANAGES VEHICLE FLEET.

 A1.2.2.1. SUBMITS VEHICLE REQUEST.

 A1.2.2.2. MAKES VEHICLE ASSIGNMENT.

 A1.2.2.3. COORDINATES CREDIT CARD.

 A1.2.2.4. COORDINATES AND PICKS UP NEW OR REPLACEMENT GSA VEHICLE.

 A1.2.2.5. MONITORS VEHICLE STATUS.

 A1.2.2.6. REPORTS AND INVESTIGATES INCIDENT.

- A1.2.2.7. ATTENDS VEHICLE MEETINGS.
- A1.2.2.8. MONITORS VEHICLE TRAINING PROGRAM.
- A1.2.3. PERFORMS APPLIANCE MANAGEMENT.
 - A1.2.3.1. ORDERS AND TURNS-IN APPLIANCE.
 - A1.2.3.2. RECEIPTS FOR AND STORES APPLIANCE.
 - A1.2.3.3. MAKES APPLIANCE EXCHANGE.
 - A1.2.3.4. MAINTAINS BACKUP STOCK.
 - A1.2.3.5. MANAGES WARRANTY PROGRAM.
- A1.2.4. MANAGES SELF-HELP STORE.

Attachment 2, Appendix C**PROCESS ORIENTED DESCRIPTION****MAINTENANCE ENGINEERING****A1.1. RECEIVES TRAINING.**

A1.1.1. RECEIVES CONTINGENCY TRAINING.

 A1.1.1.1. RECEIVES CATEGORY 1, CLASSROOM TRAINING.

 A1.1.1.2. RECEIVES CATEGORY 2, HANDS-ON TRAINING.

A1.2. MANAGES REAL PROPERTY MAINTENANCE.

A1.2.1. MANAGES INFRASTRUCTURE MAINTENANCE AND REPAIR PROGRAM.

 A1.2.1.1. MANAGES PAVEMENTS PROGRAM.

 A1.2.1.2. MANAGES ROOFING PROGRAM.

 A1.2.1.3. MANAGES WATER AND WASTEWATER PROGRAM.

 A1.2.1.4. MANAGES INDUSTRIAL WATER TREATMENT PROGRAM.

 A1.2.1.5. MANAGES ELECTRICAL DISTRIBUTION PROGRAM.

 A1.2.1.6. MANAGES AIRFIELD LIGHTING PROGRAM.

 A1.2.1.7. MANAGES CORROSION CONTROL PROGRAM.

 A1.2.1.8. MANAGES TRAFFIC PROGRAM.

 A1.2.1.9. MANAGES ENERGY PROGRAM.

 A1.2.1.10. MANAGES SHELTER PROGRAM.

 A1.2.1.11. MANAGES HVAC PROGRAM.

 A1.2.1.12. MANAGES WARRANTY PROGRAM.

A1.2.2. REVIEWS DESIGN PROJECT.

 A1.2.2.1. REVIEWS IN-HOUSE DESIGNED PROJECT.

 A1.2.2.2. REVIEWS ARCHITECTURAL-ENGINEERING DESIGNED PROJECT.

 A1.2.2.3. REVIEWS MILITARY CONSTRUCTION DESIGNED PROJECT.

A1.2.3. PERFORMS WORK ANALYSIS:

 A1.2.3.1. DEVELOPS PERFORMANCE STANDARD.

 A1.2.3.2. DEVELOPS AND MEASURES PRODUCTIVITY INDICATOR.

 A1.2.3.3. REVIEWS ZONE WORKLOAD, MANPOWER BALANCE, AND SKILLS MIX.

 A1.2.3.4. PERFORMS ECONOMIC ANALYSIS.

 A1.2.3.5. PERFORMS OPERATIONS STAFF WORK.

A1.2.4. MANAGES CONTRACT.

 A1.2.4.1. MANAGES RECURRING SERVICE CONTRACT.

 A1.2.4.1.1. DEVELOPS AND MODIFIES CONTRACT PACKAGE.

 A1.2.4.1.2. NEGOTIATES CONTRACT.

 A1.2.4.1.3. INSPECTS CONTRACT.

 A1.2.4.1.4. PREPARES REPORT.

 A1.2.4.2. MANAGES NON-RECURRING SERVICE CONTRACT.

 A1.2.4.2.1. DEVELOPS AND MODIFIES CONTRACT PACKAGE.

 A1.2.4.2.2. NEGOTIATES CONTRACT.

- A1.2.4.2.3. INSPECTS CONTRACT.
- A1.2.4.2.4. PREPARES REPORT.
- A1.2.4.3. MANAGES UTILITY CONTRACT.
 - A1.2.4.3.1. DEVELOPS AND MODIFIES CONTRACT PACKAGE.
 - A1.2.4.3.2. NEGOTIATES CONTRACT AND MODIFIED PACKAGE.
 - A1.2.4.3.3. MAINTAINS BROCHURE.
 - A1.2.4.3.4. MANAGES UTILITY RESALE AGREEMENT.
 - A1.2.4.3.5. CONDUCTS BASE UTILITY SERVICE MEETING.
- A1.2.5. PROVIDES NON-DESIGN DRAFTING SUPPORT.
 - A1.2.5.1. UPDATES AS-BUILT DRAWING.
 - A1.2.5.2. MAINTAINS TABS FOR BASE COMPREHENSIVE PLAN (BCP).
 - A1.2.5.3. PERFORMS NON-DESIGN REPRODUCTION.
 - A1.2.5.4. REPAIRS AND MAINTAINS DRAWING.

Attachment 2, Appendix D**PROCESS ORIENTED DESCRIPTION****FACILITY MAINTENANCE****A1.1. RECEIVES TRAINING.**

- A1.1.1. RECEIVES CONTINGENCY TRAINING.
 - A1.1.1.1. RECEIVES CATEGORY 1, CLASSROOM TRAINING.
 - A1.1.1.2. RECEIVES CATEGORY 2, HANDS-ON TRAINING.
- A1.1.2. RECEIVES CERTIFICATION TRAINING.

A1.2. PROVIDES LOGISTIC SUPPORT.

- A1.2.1. PROVIDES CUSTOMER SUPPORT.
 - A1.2.1.1. RECEIVES AND PROCESSES WORK REQUEST.
 - A1.2.1.2. PROVIDES JOB STATUS.
 - A1.2.1.3. TRAINS FACILITY MANAGER.
- A1.2.2. OPERATES FORWARD SUPPLY STORE.

A1.3. PERFORMS SYSTEM OPERATION. Performs unmanned heat plant surveillance.

A1.4. PERFORMS REAL PROPERTY MAINTENANCE. Performs scheduled maintenance (maintains HVAC system, electrical system, plumbing system, and structural system).

A1.5. PERFORMS REAL PROPERTY REPAIR.

- A1.5.1. PERFORMS EMERGENCY REPAIR.
 - A1.5.1.1. REPAIRS HVAC SYSTEM.
 - A1.5.1.2. REPAIRS ELECTRICAL SYSTEM.
 - A1.5.1.3. REPAIRS PLUMBING SYSTEM.
 - A1.5.1.4. REPAIRS STRUCTURAL SYSTEM.
 - A1.5.1.5. PERFORMS EMERGENCY ASBESTOS REMOVAL AND CONTAINMENT.
- A1.5.2. PERFORMS ROUTINE REPAIR.
 - A1.5.2.1. REPAIRS HVAC SYSTEM.
 - A1.5.2.2. REPAIRS ELECTRICAL SYSTEM.
 - A1.5.2.3. REPAIRS PLUMBING SYSTEM.
 - A1.5.2.4. REPAIRS STRUCTURAL SYSTEM.

A1.6. PERFORMS REAL PROPERTY MODIFICATION AND ALTERATION.

- A1.6.1. ACCOMPLISHES MINOR PROJECT.
- A1.6.2. SUPPORTS SELF-HELP PROJECT.

Attachment 2, Appendix E**PROCESS ORIENTED DESCRIPTION****INFRASTRUCTURE SUPPORT****A1.1. RECEIVES TRAINING.**

- A1.1.1. RECEIVES CONTINGENCY TRAINING.
 - A1.1.1.1. RECEIVES CATEGORY 1, CLASSROOM TRAINING.
 - A1.1.1.2. RECEIVES CATEGORY 2, HANDS-ON TRAINING.
- A1.1.2. RECEIVES CERTIFICATION TRAINING.

A1.2. PROVIDES LOGISTIC SUPPORT.

- A1.2.1. DETERMINES REQUIREMENT AND REQUESTS MATERIAL.
 - A1.2.2. MAINTAINS SHOP STOCK.
 - A1.2.3. MANAGES SHOP EQUIPMENT.

A1.3. PERFORMS SYSTEM OPERATION.

- A1.3.1. OPERATES AIRCRAFT ARRESTING SYSTEM.
 - A1.3.1.1. PERFORMS MA-1A POST-ENGAGEMENT OPERATION.
 - A1.3.1.2. PERFORMS MA-1A ACTIVATION OR DEACTIVATION.
 - A1.3.1.3. PERFORMS BAK-12 POST-ENGAGEMENT OPERATION.
 - A1.3.1.4. PERFORMS BAK-12 ACTIVATION OR DEACTIVATION.
 - A1.3.1.5. PROVIDES OPERATOR TRAINING.
- A1.3.2. OPERATES DIESEL OR GAS GENERATOR.
 - A1.3.2.1. OPERATES EMERGENCY GENERATOR.
 - A1.3.2.2. TRAINS BASE PERSONNEL ON GENERATOR.
 - A1.3.2.3. REFUELS EMERGENCY GENERATOR.
- A1.3.3. OPERATES WATER DISTRIBUTION SYSTEM.
 - A1.3.3.1. TAKES SAMPLE AND TESTS WATER.
 - A1.3.3.2. PERFORMS CHEMICAL TREATMENT ON WATER SUPPLY.
 - A1.3.3.3. OPERATES FIRE HYDRANT.
- A1.3.4. OPERATES WASTEWATER COLLECTION SYSTEM.
 - A1.3.4.1. OPERATES OIL SEPARATOR VALVE.
 - A1.3.4.2. PRETREATS WASTEWATER.

A1.4. PERFORMS REAL PROPERTY MAINTENANCE.

- A1.4.1. PERFORMS MAINTENANCE ON EXTERIOR ELECTRICAL SYSTEM.
 - A1.4.1.1. MAINTAINS OVERHEAD DISTRIBUTION SYSTEM.
 - A1.4.1.2. MAINTAINS UNDERGROUND DISTRIBUTION SYSTEM.
 - A1.4.1.3. MAINTAINS SUBSTATION.
 - A1.4.1.4. MAINTAINS SWITCHING STATION.
 - A1.4.1.5. MAINTAINS ELECTRICAL VAULT.
 - A1.4.1.6. MAINTAINS CRITICAL EXTERIOR LIGHT.
 - A1.4.1.7. MAINTAINS NON-CRITICAL EXTERIOR LIGHT.

- A1.4.1.8. MAINTAINS TRAFFIC LIGHT.
- A1.4.1.9. MAINTAINS ROTATING BEACON.
- A1.4.1.10. MAINTAINS OTHER EXTERNAL ELECTRICAL SYSTEMS.
- A1.4.2. PERFORMS MAINTENANCE ON AIRFIELD LIGHTING SYSTEM.
- A1.4.3. PERFORMS MAINTENANCE ON AIRCRAFT ARRESTING SYSTEM.
 - A1.4.3.1. MAINTAINS MA-1A.
 - A1.4.3.2. MAINTAINS BAK-12.
- A1.4.4. MAINTAINS GENERATOR.
 - A1.4.4.1. MAINTAINS DIESEL GENERATOR.
 - A1.4.4.2. MAINTAINS GAS GENERATOR.
 - A1.4.4.3. MAINTAINS AUTOMATIC TRANSFER PANEL.
- A1.4.5. PERFORMS MAINTENANCE ON LIQUID FUEL SYSTEM.
 - A1.4.5.1. MAINTAINS TANK.
 - A1.4.5.2. MAINTAINS VALVE.
 - A1.4.5.3. MAINTAINS PUMP.
 - A1.4.5.4. MAINTAINS PIPELINE.
 - A1.4.5.5. MAINTAINS OTHER COMPONENT.
- A1.4.6. PERFORMS MAINTENANCE ON GROUNDING AND LIGHTNING PROTECTION SYSTEM.
- A1.4.7. PERFORMS MAINTENANCE ON ALARM SYSTEM.
 - A1.4.7.1. MAINTAINS FIRE ALARM AND DETECTION SYSTEM.
 - A1.4.7.2. MAINTAINS INTRUSION ALARM SYSTEM.
 - A1.4.7.3. MAINTAINS ENVIRONMENTAL ALARM SYSTEM.
- A1.4.8. PERFORMS MAINTENANCE ON SEWAGE SYSTEM.
 - A1.4.8.1. CHECKS LIFT STATION AND MAIN CONNECTION.
 - A1.4.8.2. LUBRICATES EQUIPMENT IN LIFT STATION.
- A1.4.9. PERFORMS MAINTENANCE ON WATER DISTRIBUTION SYSTEM.
 - A1.4.9.1. PERFORMS RECURRING WORK PROGRAM (RWP) FOR PUMP STATION.
 - A1.4.9.2. PERFORMS RWP FOR WATER TREATMENT EQUIPMENT.
 - A1.4.9.3. PERFORMS RWP FOR WATER STORAGE.
 - A1.4.9.4. PERFORMS RWP FOR SWIMMING POOL.
- A1.4.10. PERFORMS MAINTENANCE ON DELUGE SYSTEM.
 - A1.4.10.1. CHECKS AND STARTS ENGINE.
 - A1.4.10.2. CHANGES OIL AND LUBRICATES.
- A1.4.11. PERFORMS MAINTENANCE ON CATHODIC PROTECTION SYSTEM.
- A1.4.12. MAINTAINS FUEL GAS DISTRIBUTION SYSTEM.
 - A1.4.12.1. PERFORMS RWP FOR NATURAL GAS SYSTEM.
 - A1.4.12.2. PERFORMS RWP ON LIQUID PETROLEUM SYSTEM.

A1.5. PERFORMS REAL PROPERTY REPAIR.

- A1.5.1. REPAIRS EXTERIOR ELECTRICAL SYSTEM.
 - A1.5.1.1. REPAIRS OVERHEAD DISTRIBUTION SYSTEM.
 - A1.5.1.2. REPAIRS UNDERGROUND DISTRIBUTION SYSTEM.
 - A1.5.1.3. REPAIRS SUBSTATION.

- A1.5.1.4. REPAIRS SWITCHING STATION.
- A1.5.1.5. REPAIRS ELECTRICAL VAULT.
- A1.5.1.6. REPAIRS CRITICAL EXTERIOR LIGHT.
- A1.5.1.7. REPAIRS NON-CRITICAL EXTERIOR LIGHT.
- A1.5.1.8. REPAIRS TRAFFIC LIGHT.
- A1.5.1.9. REPAIRS ROTATING BEACON.
- A1.5.2. REPAIRS AIRFIELD LIGHTING SYSTEM.
- A1.5.3. REPAIRS AIRCRAFT ARRESTING SYSTEM.
 - A1.5.3.1. REPAIRS MA-1A.
 - A1.5.3.2. REPAIRS BAK-12.
- A1.5.4. REPAIRS GENERATOR.
 - A1.5.4.1. REPAIRS DIESEL GENERATOR.
 - A1.5.4.2. REPAIRS GAS GENERATOR.
 - A1.5.4.3. REPAIRS AUTOMATIC TRANSFER PANEL.
- A1.5.5. REPAIRS FUEL GAS DISTRIBUTION SYSTEM.
 - A1.5.5.1. REPAIRS NATURAL GAS SYSTEM.
 - A1.5.5.2. REPAIRS LP GAS SYSTEM.
- A1.5.6. REPAIRS LIQUID FUEL SYSTEM.
 - A1.5.6.1. REPAIRS TANK.
 - A1.5.6.2. REPAIRS VALVE.
 - A1.5.6.3. REPAIRS PUMP.
 - A1.5.6.4. REPAIRS PIPELINE.
 - A1.5.6.5. REPAIRS OTHER COMPONENT.
- A1.5.7. REPAIRS ALARM SYSTEM.
 - A1.5.7.1. REPAIRS FIRE ALARM AND DETECTION SYSTEM.
 - A1.5.7.2. REPAIRS INTRUSION ALARM SYSTEM.
 - A1.5.7.3. REPAIRS ENVIRONMENTAL ALARM SYSTEM.
- A1.5.8. REPAIRS SEWAGE COLLECTION SYSTEM.
 - A1.5.8.1. REPAIRS LIFT STATION.
 - A1.5.8.2. REPAIRS SEWAGE LINE.
 - A1.5.8.3. REPAIRS OIL SEPARATOR.
 - A1.5.8.4. REPAIRS PRETREATMENT EQUIPMENT.
- A1.5.9. REPAIRS WATER DISTRIBUTION SYSTEM.
 - A1.5.9.1. REPAIRS PUMP STATION.
 - A1.5.9.2. REPAIRS WATER TREATMENT EQUIPMENT.
 - A1.5.9.3. REPAIRS WATER STORAGE.
 - A1.5.9.4. REPAIRS INSTALLATION WATER LINE.
 - A1.5.9.5. REPAIRS WATER VALVES.
 - A1.5.9.6. REPAIRS SWIMMING POOL.
 - A1.5.9.7. PERFORMS LIMITED ASBESTOS REMOVAL AND CONTAINMENT WORK.

A1.6. PERFORMS REAL PROPERTY MODIFICATION.

- A1.6.1. MODIFIES ALARM SYSTEM.
 - A1.6.1.1. MODIFIES FIRE ALARM AND DETECTION SYSTEM.

- A1.6.1.2. MODIFIES INTRUSION ALARM SYSTEM.
- A1.6.1.3. MODIFIES ENVIRONMENTAL ALARM SYSTEM.
- A1.6.2. MODIFIES EXTERIOR ELECTRICAL SYSTEM:
 - A1.6.2.1. MODIFIES OVERHEAD DISTRIBUTION SYSTEM.
 - A1.6.2.2. MODIFIES UNDERGROUND DISTRIBUTION SYSTEM.
 - A1.6.2.3. MODIFIES SUBSTATION.
 - A1.6.2.4. MODIFIES SWITCHING STATION.
 - A1.6.2.5. MODIFIES ELECTRICAL VAULT.
 - A1.6.2.6. MODIFIES EXTERIOR AREA LIGHT.
 - A1.6.2.7. MODIFIES TRAFFIC LIGHT.
 - A1.6.2.8. MODIFIES ROTATING BEACON.
- A1.6.3. MODIFIES GENERATOR:
 - A1.6.3.1. MODIFIES DIESEL GENERATOR.
 - A1.6.3.2. MODIFIES GAS GENERATOR.
 - A1.6.3.3. MODIFIES AUTOMATIC TRANSFER PANEL.
- A1.6.4. MODIFIES SEWAGE COLLECTION SYSTEM.
- A1.6.5. MODIFIES WATER DISTRIBUTION SYSTEM.
- A1.6.6. MODIFIES LIQUID FUELS SYSTEM:
 - A1.6.6.1. MODIFIES TANK.
 - A1.6.6.2. MODIFIES VALVE.
 - A1.6.6.3. MODIFIES PUMP.
 - A1.6.6.4. MODIFIES PIPELINE.
 - A1.6.6.5. MODIFIES OTHER COMPONENT.
- A1.6.7. MODIFIES GROUNDING AND LIGHTNING PROTECTION SYSTEM.
- A1.6.8. MODIFIES CATHODIC PROTECTION SYSTEM.
- A1.6.9. MODIFIES/INSTALLS GAS FUEL DISTRIBUTION SYSTEM:
 - A1.6.9.1. MODIFIES/INSTALLS NATURAL GAS DISTRIBUTION SYSTEM.
 - A1.6.9.2. MODIFIES/INSTALLS LP SYSTEM.

Attachment 2, Appendix F**PROCESS ORIENTED DESCRIPTION****HEAVY REPAIR****A1.1. RECEIVES TRAINING.**

- A1.1.1. RECEIVES CATEGORY 1, CLASSROOM TRAINING.
- A1.1.2. RECEIVES CATEGORY 2, HANDS-ON TRAINING.

A1.2. PROVIDES LOGISTIC SUPPORT.

- A1.2.1. MANAGES PEST CONTROL INVENTORY.
- A1.2.2. MANAGES HAZARDOUS MATERIAL.
- A1.2.3. MANAGES BASE RECOVERY MATERIAL.

A1.3. PERFORMS SYSTEM OPERATION.

- A1.3.1. SWEEPS AIRFIELD.
- A1.3.2. SWEEPS STREET.
- A1.3.3. SWEEPS PARKING LOT.
- A1.3.4. SWEEPS OPEN STORAGE AREA.

A1.4. PERFORMS REAL PROPERTY MAINTENANCE.

- A1.4.1. MAINTAINS AIRFIELD.
 - A1.4.1.1. INSPECTS AIRFIELD.
 - A1.4.1.2. MAINTAINS AIRFIELD PAVEMENT.
 - A1.4.1.3. PERFORMS FLIGHTLINE GROUNDS PEST CONTROL.
 - A1.4.1.4. MAINTAINS FLIGHTLINE DITCH AND CULVERT.
- A1.4.2. OPERATES EQUIPMENT TO SUPPORT BASE ACTIVITY.
- A1.4.3. PERFORMS OPERATOR MAINTENANCE ON EQUIPMENT OR VEHICLES.
- A1.4.4. MAINTAINS ROAD.
 - A1.4.4.1. MAINTAINS ROAD SURFACE.
 - A1.4.4.2. MAINTAINS GUARD RAIL.
 - A1.4.4.3. INSPECTS ROAD, CURB, GUTTER, DITCH, AND CULVERT FOR SHORT-TERM MAINTENANCE.
 - A1.4.4.4. MAINTAINS CURB AND GUTTER.
 - A1.4.4.5. MAINTAINS DITCH AND CULVERT.
 - A1.4.4.6. MAINTAINS POST-MOUNTED TRAFFIC DEVICE.
- A1.4.5. PERFORMS PEST MANAGEMENT.
 - A1.4.5.1. PERFORMS STRUCTURAL PEST CONTROL.
 - A1.4.5.2. INSPECTS FOR PEST AND HERBICIDE CONTROL.
 - A1.4.5.3. PERFORMS NON-STRUCTURAL PEST CONTROL.
 - A1.4.5.4. PERFORMS OTHER BASE GROUNDS PEST CONTROL.
 - A1.4.5.5. PERFORMS MILITARY FAMILY HOUSING (MFH) PEST CONTROL.
 - A1.4.5.6. PERFORMS CE ACCUMMULATION POINT MANAGEMENT.
- A1.4.6. PROVIDES LOCKSMITH SERVICES.

- A1.4.6.1. PERFORMS LOCKSMITH SERVICE.
- A1.4.6.2. MAINTAINS REAL PROPERTY INSTALLED VAULT AND SAFE.
- A1.4.7. MAINTAINS STORM DRAINAGE.
 - A1.4.7.1. CLEANS STORM DRAIN.
 - A1.4.7.2. INSPECTS STORM DRAIN FOR SHORT-TERM MAINTENANCE.
- A1.4.8. MAINTAINS DRIVEWAY, PARKING LOT, STORAGE AREA.
 - A1.4.8.1. INSPECTS FOR SHORT-TERM MAINTENANCE.
 - A1.4.8.2. PERFORMS MAINTENANCE ON DRIVEWAY, PARKING LOT, AND STORAGE AREA.
- A1.4.9. MAINTAINS SIDEWALK, BIKE AND JOGGING SURFACE.
 - A1.4.9.1. INSPECTS FOR MAINTENANCE REQUIREMENT.
 - A1.4.9.2. PERFORMS MAINTENANCE ON SIDEWALK, BIKE, AND JOGGING SURFACE.

A1.5. PERFORMS REAL PROPERTY REPAIR.

- A1.5.1. REPAIRS AIRFIELD.
- A1.5.2. REPAIRS INTERIOR FACILITY:
 - A1.5.2.1. REPAIRS FIRE PROTECTION SYSTEM.
 - A1.5.2.2. REPAIRS LOW VOLTAGE ELECTRICAL SYSTEM.
 - A1.5.2.3. REPAIRS GAS DISTRIBUTION SYSTEM.
 - A1.5.2.4. REPAIRS CONCRETE FACILITY.
 - A1.5.2.5. REPAIRS MASONRY FACILITY.
 - A1.5.2.6. REPAIRS INTERIOR WATER DISTRIBUTION SYSTEM.
 - A1.5.2.7. REPAIRS PLUMBING FIXTURE.
 - A1.5.2.8. REPAIRS HVAC SYSTEM.
 - A1.5.2.9. PERFORMS STRUCTURAL REPAIR.
 - A1.5.2.10. REPAIRS STUCCO OR PLASTER FACILITY.
 - A1.5.2.11. REPAIRS CERAMIC OR QUARRY TILE.
 - A1.5.2.12. PERFORMS METAL WORK.
 - A1.5.2.13. REPAIRS INTERIOR DRAIN, VENT, AND COLLECTION SYSTEM.
 - A1.5.2.14. REPAIRS FLOOR COVERING.
 - A1.5.2.15. PERFORMS MINOR PAINTING.
- A1.5.3. REPAIRS BUILDING UTILITY SYSTEM:
 - A1.5.3.1. REPAIRS FIRE PROTECTION SYSTEM.
 - A1.5.3.2. REPAIRS LOW VOLTAGE ELECTRICAL SYSTEM.
 - A1.5.3.3. REPAIRS GAS DISTRIBUTION SYSTEM.
 - A1.5.3.4. REPAIRS HVAC SYSTEM.
 - A1.5.3.5. REPAIRS MEDICAL PIPING SYSTEM.
 - A1.5.3.6. REPAIRS ELECTRICAL APPLIANCE OR EQUIPMENT.
 - A1.5.3.7. PERFORMS METAL WORK.
 - A1.5.3.8. REPAIRS COMPRESSED AIR DISTRIBUTION SYSTEM.
- A1.5.4. OPERATES EQUIPMENT TO SUPPORT BASE ACTIVITY.
- A1.5.5. REPAIRS ROAD.
 - A1.5.5.1. REPAIRS ROAD SURFACE.
 - A1.5.5.2. REPAIRS CURB AND GUTTER.

- A1.5.5.3. REPAIRS DITCH AND CULVERT.
- A1.5.6. REPAIRS EXTERIOR FACILITY:
 - A1.5.6.1. REPAIRS PLUMBING FIXTURE.
 - A1.5.6.2. REPAIRS LOW VOLTAGE ELECTRICAL SYSTEM.
 - A1.5.6.3. REPAIRS CROSS-CONNECTION CONTROL AND BACKFLOW.
 - A1.5.6.4. PERFORMS STRUCTURAL REPAIR.
 - A1.5.6.5. REPAIRS CONCRETE FACILITY.
 - A1.5.6.6. REPAIRS MASONRY FACILITY.
 - A1.5.6.7. REPAIRS STUCCO OR PLASTER FACILITY.
 - A1.5.6.8. REPAIRS CERAMIC OR QUARRY TILE.
 - A1.5.6.9. PERFORMS METAL WORK.
- A1.5.7. REPAIRS STORM DRAIN.
- A1.5.8. REPAIRS FENCE.
- A1.5.9. REPAIRS DRIVEWAY, PARKING LOT, AND STORAGE AREA.
- A1.5.10. REPAIRS SIDEWALK, BIKE, AND JOGGING SURFACE.

A1.6. PERFORMS REAL PROPERTY ALTERATION.

- A1.6.1. ALTERS BUILDING UTILITY SYSTEM.
 - A1.6.1.1. ALTERS FIRE PROTECTION SYSTEM.
 - A1.6.1.2. ALTERS LOW VOLTAGE ELECTRICAL SYSTEM.
 - A1.6.1.3. PERFORMS METAL WORK.
 - A1.6.1.4. ALTERS HVAC SYSTEM.
 - A1.6.1.5. ALTERS ELECTRICAL APPLIANCE OR EQUIPMENT.
- A1.6.2. ALTERS INTERIOR FACILITY.
 - A1.6.2.1. ALTERS STRUCTURE.
 - A1.6.2.2. ALTERS CONCRETE FACILITY.
 - A1.6.2.3. ALTERS MASONRY FACILITY.
 - A1.6.2.4. ALTERS STUCCO OR PLASTER FACILITY.
 - A1.6.2.5. ALTERS CERAMIC OR QUARRY TILE.
 - A1.6.2.6. ALTERS LOW VOLTAGE ELECTRICAL SYSTEM.
 - A1.6.2.7. PERFORMS METAL WORK.
 - A1.6.2.8. ALTERS HVAC SYSTEM.
- A1.6.3. ALTERS EXTERIOR FACILITY.
 - A1.6.3.1. PERFORMS STRUCTURAL ALTERATION.
 - A1.6.3.2. ALTERS CONCRETE FACILITY.
 - A1.6.3.3. ALTERS MASONRY FACILITY.
 - A1.6.3.4. ALTERS STUCCO OR PLASTER FACILITY.
 - A1.6.3.5. ALTERS CERAMIC OR QUARRY TILE.
 - A1.6.3.6. ALTERS PLUMBING FIXTURE.
 - A1.6.3.7. ALTERS LOW VOLTAGE ELECTRICAL SYSTEM.
 - A1.6.3.8. PERFORMS METAL WORK.
 - A1.6.3.9. ALTERS CROSS-CONNECTION, CONTROL, AND BACKFLOW.
 - A1.6.3.10. PERFORMS MINOR PAINTING.
 - A1.6.3.11. ALTERS IRRIGATION SPRINKLER SYSTEM.

A1.7. PERFORMS REAL PROPERTY CONSTRUCTION.

- A1.7.1. OPERATES EQUIPMENT TO SUPPORT COMMUNICATION SCHEMES.
- A1.7.2. PERFORMS STRUCTURAL CONSTRUCTION.
 - A1.7.2.1. CONSTRUCTS FACILITIES.
 - A1.7.2.2. INSTALLS UTILITY SYSTEMS.
 - A1.7.2.3. OPERATES EQUIPMENT.
- A1.7.3. CONSTRUCTS ROAD.
- A1.7.4. CONSTRUCTS FENCE.
- A1.7.5. CONSTRUCTS DITCH, CULVERT, STORM DRAIN, AND SUB-SURFACE DRAIN.
- A1.7.6. CONSTRUCTS CURB OR GUTTER.
- A1.7.7. CONSTRUCTS DRIVEWAY, PARKING LOT, OR STORAGE AREA.
- A1.7.8. CONSTRUCTS SIDEWALK, BIKE, OR JOGGING SURFACE.

Attachment 3

STANDARD MANPOWER TABLE								
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE					
*Operations Management/44EO			N/A					
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT					
Civil Engr, General Engr CE Mgr	32E3G 3E000	MAJ CMS	1					
Information Mgt Crftmn Information Mgt Jrnymn	3A071 3A051	TSG SSG	1					
TOTAL			4					
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT					
TOTAL								

AF Form 1113, JUN 91 (COMPUTER GENERATED). PREVIOUS EDITION IS OBSOLETE.

*Reference application instructions in paragraph 4.4.

STANDARD MANPOWER TABLE												
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE									
*Material Acquisition/44EO			803.5 - 6428.0									
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
Supply Mgr	2S000	CMS										
Supply Mgt Supt	2S090	SMS										
Inventory Mgt Crftmn	2S071	MSG	1	1	1	1	1	1	1	1	1	
Inventory Mgt Crftmn	2S071	TSG										
Inventory Mgt Jnrymn	2S051	SSG	1	1	1	1	1	1	1	1	1	
Inventory Mgt Jnrymn	2S051	SRA	1	1	1	1	2	2	2	2	2	
Inventory Mgt Apr	2S031	A1C						1	1	1	1	
Mat Stor and Distrib Crftmn	2S073	MSG										
Mat Stor and Distrib Crftmn	2S073	TSG	1	1	1	1	1	1	1	1	1	
Mat Stor and Distrib Jnrymn	2S053	SSG	1	1	1	1	1	1	1	1	1	
Mat Stor and Distrib Jnrymn	2S053	SRA		1	1	2	2	2	2	2	2	
Mat Stor and Distrib Apr	2S033	A1C			1	1	1	1	2	2	2	
Vehicle Operations Crftmn	2T171	TSG									1	
TOTAL			5	6	7	8	9	10	11	12	13	
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
Supply Mgr	2S000	CMS										
Supply Mgt Supt	2S090	SMS		1	1	1	1	1	1	1	1	
Inventory Mgt Crftmn	2S071	MSG	1	1	1	1	1	1	1	1	1	
Inventory Mgt Crftmn	2S071	TSG	1	1	1	1	1	1	1	1	1	
Inventory Mgt Jnrymn	2S051	SSG	1	1	1	2	2	2	2	3	3	
Inventory Mgt Jnrymn	2S051	SRA	2	2	2	2	2	3	3	3	3	
Inventory Mgt Apr	2S031	A1C	1	1	1	1	1	1	1	1	1	
Mat Stor and Distrib Crftmn	2S073	MSG			1	1	1	1	1	1	1	
Mat Stor and Distrib Crftmn	2S073	TSG	1	1	1	1	1	1	1	1	1	
Mat Stor and Distrib Jnrymn	2S053	SSG	2	2	2	2	2	2	3	3	3	
Mat Stor and Distrib Jnrymn	2S053	SRA	2	2	2	2	3	3	3	3	3	
Mat Stor and Distrib Apr	2S033	A1C	2	2	2	2	2	2	2	2	3	
Vehicle Operations Crftmn	2T171	TSG	1	1	1	1	1	1	1	1	1	
TOTAL			14	15	16	17	18	19	20	21	22	

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*Reference application instructions in paragraph 4.4.

STANDARD MANPOWER TABLE											
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
			803.5 - 6428.0								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Supply Mgr	2S000	CMS	1	1	1	1	1	1	1	1	1
Supply Mgt Supt	2S090	SMS	1	1	1	1	1	1	1	1	1
Inventory Mgt Crftmn	2S071	MSG	1	1	1	1	1	1	1	1	1
Inventory Mgt Crftmn	2S071	TSG	1	1	1	2	2	2	2	2	2
Inventory Mgt Jnrymn	2S051	SSG	3	3	3	3	3	3	3	3	4
Inventory Mgt Jnrymn	2S051	SRA	3	3	3	3	3	4	4	4	4
Inventory Mgt Apr	2S031	A1C	2	2	2	2	2	2	3	3	3
Mat Stor and Distrib Crftmn	2S073	MSG	1	1	1	1	1	1	1	1	1
Mat Stor and Distrib Crftmn	2S073	TSG	1	2	2	2	2	2	2	2	2
Mat Stor and Distrib Jnrymn	2S053	SSG	3	3	3	3	3	3	3	3	3
Mat Stor and Distrib Jnrymn	2S053	SRA	3	3	3	3	4	4	4	4	4
Mat Stor and Distrib Apr	2S033	A1C	3	3	3	3	3	3	3	4	4
Vehicle Operations Crftmn	2T171	TSG	1	1	1	1	1	1	1	1	1
TOTAL			23	24	25	26	27	28	29	30	31
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Supply Mgr	2S000	CMS	1	1	1	1	1	1	1	1	1
Supply Mgt Supt	2S090	SMS	1	1	1	1	1	1	1	1	1
Inventory Mgt Crftmn	2S071	MSG	1	1	1	1	2	2	2	2	2
Inventory Mgt Crftmn	2S071	TSG	3	3	3	3	3	3	3	3	3
Inventory Mgt Jnrymn	2S051	SSG	4	4	4	4	4	4	4	4	4
Inventory Mgt Jnrymn	2S051	SRA	4	4	4	4	4	4	5	5	5
Inventory Mgt Apr	2S031	A1C	3	3	4	4	4	5	5	5	5
Mat Stor and Distrib Crftmn	2S073	MSG	1	1	1	1	1	1	1	2	2
Mat Stor and Distrib Crftmn	2S073	TSG	2	2	2	3	3	3	3	3	3
Mat Stor and Distrib Jnrymn	2S053	SSG	3	4	4	4	4	4	4	4	4
Mat Stor and Distrib Jnrymn	2S053	SRA	4	4	4	4	4	4	4	4	4
Mat Stor and Distrib Apr	2S033	A1C	4	4	4	4	4	4	4	4	5
Vehicle Operations Crftmn	2T171	TSG	1	1	1	1	1	1	1	1	1
TOTAL			32	33	34	35	36	37	38	39	40

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*Reference application instructions in paragraph 4.4.

STANDARD MANPOWER TABLE												
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE									
*Maintenance Engineering/44EO			803.5 - 5624.5									
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
Civil Engr, General Engr	32E3G	MAJ										
Civil Engr, Civil Engr	32E3C	CPT	1	1	1	1	1	1	1	1	1	1
Civil Engr, Electrical Engr	32E3E	CPT	1	1	1	1	1	1	1	1	1	1
Civil Engr, Mechanical Engr	32E3F	CPT	1	1	1	1	1	1	1	1	2	2
Civil Engr, General Engr	32E3G	CPT			1	1	1	1	1	1	1	1
Engineering Supt	3E591	SMS										
Engineering Crftmn	3E571	MSG							1	1	1	1
Engineering Crftmn	3E571	TSG	1	1	1	1	1	1	1	1	1	2
Engineering Jrnymn	3E551	SSG	1	1	1	2	2	2	2	2	2	2
Engineering Jrnymn	3E551	SRA		1	1	1	2	2	2	2	2	2
Engineering Apr	3E531	A1C							1	1	1	1
TOTAL			5	6	7	8	9	10	11	12	13	
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
Civil Engr, General Engr	32E3G	MAJ										
Civil Engr, Civil Engr	32E3C	CPT	1	1	1	1	1	1	1	1	1	2
Civil Engr, Electrical Engr	32E3E	CPT	1	1	1	1	1	2	2	2	2	2
Civil Engr, Mechanical Engr	32E3F	CPT	2	2	2	2	2	2	2	2	2	2
Civil Engr, General Engr	32E3G	CPT	1	1	1	1	1	1	1	1	1	1
Engineering Supt	3E591	SMS					1	1	1	1	1	1
Engineering Crftmn	3E571	MSG	1	1	1	1					1	1
Engineering Crftmn	3E571	TSG	2	2	2	2	2	2	2	2	2	2
Engineering Jrnymn	3E551	SSG	2	3	3	3	3	3	3	3	3	3
Engineering Jrnymn	3E551	SRA	3	3	4	4	5	5	5	5	5	5
Engineering Apr	3E531	A1C	1	1	1	2	2	2	3	3	3	3
TOTAL			14	15	16	17	18	19	20	21	22	

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*Reference application instructions in paragraph 4.4.

STANDARD MANPOWER TABLE												
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE									
*Maintenance Engineering/44EO			803.5 - 5624.5									
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
Civil Engr, General Engr	32E3G	MAJ								1	1	
Civil Engr, Civil Engr	32E3C	CPT	1	2	2	2	2	2	2	2	2	
Civil Engr, Electrical Engr	32E3E	CPT	2	2	2	2	2	2	2	2	2	
Civil Engr, Mechanical Engr	32E3F	CPT	2	2	2	2	3	3	3	3	3	
Civil Engr, General Engr	32E3G	CPT	2	2	2	2	2	2	2	2	2	
Engineering Supt	3E591	SMS	1	1	1	1	1	1	1	1	1	
Engineering Crftmn	3E571	MSG	1	1	1	1	1	1	2	2	2	
Engineering Crftmn	3E571	TSG	2	2	3	3	3	3	3	3	3	
Engineering Jrnymn	3E551	SSG	3	3	3	4	4	4	4	4	4	
Engineering Jrnymn	3E551	SRA	5	5	5	5	5	5	5	5	6	
Engineering Apr	3E531	A1C	4	4	4	4	4	5	5	5	5	
TOTAL			23	24	25	26	27	28	29	30	31	
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
Civil Engr, General Engr	32E3G	MAJ	1	1	1	1						
Civil Engr, Civil Engr	32E3C	CPT	2	2	2	2	3					
Civil Engr, Electrical Engr	32E3E	CPT	3	3	3	3						
Civil Engr, Mechanical Engr	32E3F	CPT	3	3	3	3						
Civil Engr, General Engr	32E3G	CPT	2	2	2	2						
Engineering Supt	3E591	SMS	1	1	1	1						
Engineering Crftmn	3E571	MSG	2	2	2	2	2					
Engineering Crftmn	3E571	TSG	3	3	4	4						
Engineering Jrnymn	3E551	SSG	4	4	4	4						
Engineering Jrnymn	3E551	SRA	6	6	6	6						
Engineering Apr	3E531	A1C	5	6	6	6						
TOTAL			32	33	34	35						

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*Reference application instructions in paragraph 4.4.

STANDARD MANPOWER TABLE												
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE									
*Facility Maintenance/44EO			3535.4 - 12052.5									
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
CE Supt	3EX9X	SMS	1	1	1	1	1	1	1	1	1	
CE Crftmn	3EX7X	MSG	1	1	1	1	1	1	1	1	1	
Electrical Sys Crftmn	3E071	TSG						1	1	1	1	
Electrical Sys Jrnymn	3E051	SSG	1	1	1	1	1	1	1	1	1	
Electrical Sys Jrnymn	3E051	SRA	1	1	1	1	1	1	1	1	1	
Electrical Sys Apr	3E031	A1C	1	1	1	1	1	1	1	1	1	
HVAC and Refrig Crftmn	3E171	TSG	1	1	1	1	1	1	1	1	1	
HVAC and Refrig Jrnymn	3E151	SSG	1	1	1	2	2	2	2	2	2	
★HVAC and Refrig Jrnymn	3E151	SRA	2	3	3	3	3	3	3	3	3	
HVAC and Refrig Apr	3E131	A1C	2	2	3	3	3	3	4	4	4	
Structural Crftmn	3E371	TSG	1	1	1	1	1	1	1	1	1	
Structural Jrnymn	3E351	SSG	1	1	1	1	1	1	1	1	1	
Structural Jrnymn	3E351	SRA	2	2	2	2	2	2	2	2	2	
Structural Apr	3E331	A1C	2	2	2	2	3	3	3	3	3	
★Operations Jrnymn	3E651	SSG	1	1	1	1	1	1	1	1	1	
Operations Jrnyman	3E651	SRA									1	
★Operations Apr	3E631	A1C	1	1	1	1	1	1	1	1	1	
Utilities Sys Jrnymn	3E451	SSG	1	1	1	1	1	1	1	1	1	
Utilities Sys Jrnymn	3E451	SRA	1	1	1	1	1	1	1	1	1	
Utilities Sys Apr	3E431	A1C	1	1	1	1	1	1	1	2	2	
TOTAL			22	23	24	25	26	27	28	29	30	
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
CE Supt	3EX9X	SMS	1	1	1	1	1	1	1	1	1	
CE Crftmn	3EX7X	MSG	2	2	2	2	2	2	2	2	2	
Electrical Sys Crftmn	3E071	TSG	1	1	1	1	1	1	1	1	1	
Electrical Sys Jrnymn	3E051	SSG	1	1	1	1	1	1	1	1	1	
Electrical Sys Jrnymn	3E051	SRA	1	1	1	1	1	1	1	1	1	
★Electrical Sys Apr	3E031	A1C	1	1	1	1	1	1	1	1	1	
HVAC and Refrig Crftmn	3E171	TSG	1	1	1	1	1	2	2	2	2	
HVAC and Refrig Jrnymn	3E151	SSG	2	3	3	3	3	3	3	3	3	
★HVAC and Refrig Jrnymn	3E151	SRA	3	3	3	3	3	3	4	4	5	
HVAC and Refrig Apr	3E131	A1C	4	4	5	5	5	5	5	5	5	
Structural Crftmn	3E371	TSG	1	1	1	1	1	1	1	1	1	
Structural Jrnymn	3E351	SSG	1	1	1	2	2	2	2	2	2	
Structural Jrnymn	3E351	SRA	2	2	2	2	2	2	2	2	2	
Structural Apr	3E331	A1C	3	3	3	3	3	3	3	4	4	
★Operations Crftmn	3E671	TSG			1	1	1	1	1	1	1	
★Operations Jrnyman	3E651	SSG	1	1	1	1	1	1	1	1	1	
★Operations Jrnymn	3E651	SRA	1	1	1							
★Operations Apr	3E631	A1C	1	1	1	1	1	1	1	1	1	
Utilities Sys Crftmn	3E471	TSG				1	1	1	1	1	1	
Utilities Sys Jrnymn	3E451	SSG	1	1	1	1	1	1	1	1	1	
Utilities Sys Jrnymn	3E451	SRA	1	1	1	1	1	1	1	1	1	
Utilities Sys Apr	3E431	A1C	2	2	2	2	2	2	2	2	2	
TOTAL			31	32	33	34	35	36	37	38	39	

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*Reference application instructions in paragraph 4.4.

STANDARD MANPOWER TABLE											
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
*Facility Maintenance/44EO			3535.4 - 12052.5								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
CE Supt	3EX9X	SMS	1	1	1	1	1	1	1	1	1
★CE Crftmn	3EX7X	MSG	2	2	2	2	2	2	2	2	2
Electrical Sys Crftmn	3E071	TSG	1	1	1	1	1	1	1	1	1
Electrical Sys Jrnymn	3E051	SSG	1	1	1	1	1	1	1	1	2
Electrical Sys Jrnymn	3E051	SRA	1	2	2	2	2	2	2	2	2
★Electrical Sys Apr	3E031	A1C	1	1	1	1	1	2	2	2	2
HVAC and Refrig Crftmn	3E171	TSG	2	2	2	2	2	2	2	2	2
HVAC and Refrig Jrnymn	3E151	SSG	3	3	3	3	4	4	4	4	4
HVAC and Refrig Jrnymn	3E151	SRA	5	5	5	5	5	5	5	5	5
HVAC and Refrig Apr	3E131	A1C	5	5	5	5	5	5	5	5	5
Structural Crftmn	3E371	TSG	1	1	1	1	1	1	2	2	2
Structural Jrnymn	3E351	SSG	2	2	2	3	3	3	3	3	3
Structural Jrnymn	3E351	SRA	3	3	3	3	3	3	3	3	3
Structural Apr	3E331	A1C	4	4	4	4	4	4	4	4	4
★Operations Crftman	3E671	MSG	1	1	1	1	1	1	1	1	1
★Operations Crftmn	3E671	TSG	1	1	1	1	1	1	1	1	1
★Operations Jrnymn	3E651	SSG	1	1	1	1	1	1	1	1	1
Utilities Sys Crftmn	3E471	TSG	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SSG	1	1	1	1	1	1	1	2	2
Utilities Sys Jrnymn	3E451	SRA	1	1	2	2	2	2	2	2	2
Utilities Sys Apr	3E431	A1C	2	2	2	2	2	2	2	2	2
TOTAL			40	41	42	43	44	45	46	47	48
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
CE Supt	3EX9X	SMS	1	1	1	1	1	1	1	1	1
★CE Crftmn	3EX7X	MSG	2	2	2	2	2	2	2	2	2
Electrical Sys Crftmn	3E071	TSG	2	2	2	2	2	2	2	2	2
Electrical Sys Jrnymn	3E051	SSG	2	2	2	2	2	2	2	2	2
Electrical Sys Jrnymn	3E051	SRA	2	2	2	2	2	2	2	2	2
Electrical Sys Apr	3E031	A1C	2	2	2	2	2	2	3	3	3
HVAC and Refrig Crftmn	3E171	TSG	2	3	3	3	3	3	3	3	3
HVAC and Refrig Jrnymn	3E151	SSG	4	4	4	4	4	4	4	4	4
HVAC and Refrig Jrnymn	3E151	SRA	5	5	5	5	5	5	5	5	5
HVAC and Refrig Apr	3E131	A1C	5	5	5	5	6	6	6	6	6
Structural Crftmn	3E371	TSG	2	2	2	2	2	2	2	2	2
Structural Jrnymn	3E351	SSG	3	3	3	3	3	4	4	4	4
Structural Jrnymn	3E351	SRA	3	3	4	4	4	4	4	4	4
Structural Apr	3E331	A1C	4	4	4	4	4	4	4	5	5
★Operations Crftmn	3E671	MSG	1	1	1	1	1	1	1	1	1
★Operations Crftmn	3E671	TSG	1	1	1	1	1	1	1	1	1
★Operations Jrnymn	3E651	SSG	1	1	1	1	1	1	1	1	1
Utilities Sys Crftmn	3E471	TSG	1	1	1	2	2	2	2	2	2
Utilities Sys Jrnymn	3E451	SSG	2	2	2	2	2	2	2	2	2
Utilities Sys Jrnymn	3E451	SRA	2	2	2	2	2	2	2	2	2
Utilities Sys Apr	3E431	A1C	2	2	2	2	2	2	2	2	3
TOTAL			49	50	51	52	53	54	55	56	57

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*Reference application instructions in paragraph 4.4.

STANDARD MANPOWER TABLE												
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE									
*Facility Maintenance/44EO			3535.4 - 12052.5									
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
CE Supt	3EX9X	SMS	1	1	1	1	1	1	1	1	1	
★CE Crftmn	3EX7X	MSG	2	2	2	2	2	2	2	2	2	
Electrical Sys Crftmn	3E071	TSG	2	2	2	2	2	2	2	2	2	
Electrical Sys Jrnymn	3E051	SSG	2	2	2	2	2	2	2	3	3	
Electrical Sys Jrnymn	3E051	SRA	2	2	3	3	3	3	3	3	3	
Electrical Sys Apr	3E031	A1C	3	3	3	3	3	3	3	3	3	
HVAC and Refrig Crftmn	3E171	TSG	3	3	3	3	3	3	3	3	3	
HVAC and Refrig Jrnymn	3E151	SSG	4	4	4	4	4	4	4	4	4	
HVAC and Refrig Jrnymn	3E151	SRA	5	5	5	6	6	6	6	6	6	
HVAC and Refrig Apr	3E131	A1C	6	6	6	6	6	6	7	7	7	
Structural Crftmn	3E371	TSG	2	2	2	2	2	2	2	2	2	
Structural Jrnymn	3E351	SSG	4	5	5	5	5	5	5	5	6	
Structural Jrnymn	3E351	SRA	5	5	5	5	5	6	6	6	6	
Structural Apr	3E331	A1C	5	5	5	5	6	6	6	6	6	
★Operations Crftmn	3E671	MSG	1	1	1	1	1	1	1	1	1	
★Operations Crftmn	3E671	TSG	1	1	1	1	1	1	1	1	1	
★Operations Jrnymn	3E651	SSG	1	1	1	1	1	1	1	1	1	
Utilities Sys Crftmn	3E471	TSG	2	2	2	2	2	2	2	2	2	
Utilities Sys Jrnymn	3E451	SSG	2	2	2	2	2	2	2	2	2	
Utilities Sys Jrnymn	3E451	SRA	2	2	2	2	2	2	2	2	2	
Utilities Sys Apr	3E431	A1C	3	3	3	3	3	3	3	3	3	
TOTAL			58	59	60	61	62	63	64	65	66	
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
CE Supt	3EX9X	SMS	1	1	1	1	1	1	1	1	1	
★CE Crftmn	3EX7X	MSG	2	3	3	3	3	3	3	3	3	
Electrical Sys Crftmn	3E071	TSG	2	2	2	3	3	3	3	3	3	
Electrical Sys Jrnymn	3E051	SSG	3	3	3	3	3	3	3	3	3	
Electrical Sys Jrnymn	3E051	SRA	3	3	3	3	3	3	3	3	3	
Electrical Sys Apr	3E031	A1C	3	3	3	3	3	3	3	4	4	
HVAC and Refrig Crftmn	3E171	TSG	3	3	3	3	4	4	4	4	4	
HVAC and Refrig Jrnymn	3E151	SSG	5	5	5	5	5	5	5	5	5	
HVAC and Refrig Jrnymn	3E151	SRA	6	6	6	6	6	6	6	6	6	
HVAC and Refrig Apr	3E131	A1C	7	7	7	7	7	7	7	7	7	
Structural Crftmn	3E371	TSG	2	2	3	3	3	3	3	3	4	
Structural Jrnymn	3E351	SSG	6	6	6	6	6	6	6	6	6	
Structural Jrnymn	3E351	SRA	6	6	6	6	6	6	6	6	6	
Structural Apr	3E331	A1C	6	6	6	6	6	7	7	7	7	
★Operations Crftmn	3E671	MSG	1	1	1	1	1	1	1	1	1	
★Operations Crftmn	3E671	TSG	1	1	1	1	1	1	1	1	1	
★Operations Jrnymn	3E651	SRA	1	1	1	1	1	1	1	1	1	
Utilities Sys Crftmn	3E471	TSG	2	2	2	2	2	2	2	2	2	
Utilities Sys Jrnymn	3E451	SSG	2	2	2	2	2	2	2	2	2	
Utilities Sys Jrnymn	3E451	SRA	2	2	2	2	2	2	3	3	3	
Utilities Sys Apr	3E431	A1C	3	3	3	3	3	3	3	3	3	
TOTAL			67	68	69	70	71	72	73	74	75	

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*Reference application instructions in paragraph 4.4.

STANDARD MANPOWER TABLE											
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
*Infrastructure Support/44EO			4017.5 - 29890.2								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
CE Mgr	3E000	CMS									
CE Supt	3EX9X	SMS									
Electrical Sys Crftmn	3E071	MSG	1	1	1	1	1	1	1	1	1
Electrical Sys Crftmn	3E071	TSG	1	1	1	1	1	1	1	2	2
Electrical Sys Jrnymn	3E051	SSG	2	2	2	2	3	3	3	3	3
Electrical Sys Jrnymn	3E051	SRA	3	3	3	3	3	3	3	3	3
Electrical Sys Apr	3E031	A1C	3	4	4	4	4	4	4	4	4
Electric Pwr Prod Crftmn	3E072	MSG									
Electric Pwr Prod Crftmn	3E072	TSG	1	1	1	1	1	1	1	1	1
Electric Pwr Prod Jrnymn	3E052	SSG	1	1	1	1	1	1	1	1	1
Electric Pwr Prod Jrnymn	3E052	SRA	2	2	2	2	2	2	2	2	2
Electric Pwr Prod Apr	3E032	A1C	1	1	1	1	1	1	2	2	2
Utilities Sys Crftmn	3E471	MSG									
Utilities Sys Crftmn	3E471	TSG	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SSG	1	1	1	1	1	1	1	1	2
Utilities Sys Jrnymn	3E451	SRA	2	2	2	2	2	2	2	2	2
Utilities Sys Apr	3E431	A1C	2	2	2	2	2	2	2	2	2
Liquid Fuel Sys Mtn Crftmn	3E472	MSG									
Liquid Fuel Sys Mtn Crftmn	3E472	TSG	1	1	1	1	1	1	1	1	1
Liquid Fuel Sys Mtn Jrnymn	3E452	SSG	1	1	1	1	1	1	1	1	1
Liquid Fuel Sys Mtn Jrnymn	3E452	SRA	1	1	1	1	1	1	1	1	1
Liquid Fuel Sys Mtn Apr	3E432	A1C	1	1	1	1	1	2	2	2	2
TOTAL			25	26	27	28	29	30	31	32	33
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
CE Mgr	3E000	CMS									
CE Supt	3EX9X	SMS	1	1	1	1	1	1	1	1	1
Electrical Sys Crftmn	3E071	MSG	1	1	1	1	1	1	1	1	1
Electrical Sys Crftmn	3E071	TSG	2	2	2	2	2	2	2	2	2
Electrical Sys Jrnymn	3E051	SSG	3	3	3	3	3	3	3	4	4
Electrical Sys Jrnymn	3E051	SRA	4	4	4	4	4	4	4	4	4
Electrical Sys Apr	3E031	A1C	4	5	5	5	5	6	6	6	6
Electric Pwr Prod Crftmn	3E072	MSG									
Electric Pwr Prod Crftmn	3E072	TSG	1	1	1	1	1	1	1	1	1
Electric Pwr Prod Jrnymn	3E052	SSG	1	1	1	1	1	1	1	1	2
Electric Pwr Prod Jrnymn	3E052	SRA	2	2	2	2	2	2	2	2	2
Electric Pwr Prod Apr	3E032	A1C	2	2	2	2	2	2	2	2	2
Utilities Sys Crftmn	3E471	MSG	1	1	1	1	1	1	1	1	1
Utilities Sys Crftmn	3E471	TSG	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SSG	2	2	2	2	2	2	2	2	2
Utilities Sys Jrnymn	3E451	SRA	2	2	2	2	2	2	3	3	3
Utilities Sys Apr	3E431	A1C	2	2	3	3	3	3	3	3	3
Liquid Fuel Sys Mtn Crftmn	3E472	MSG									
Liquid Fuel Sys Mtn Crftmn	3E472	TSG	1	1	1	1	1	1	1	1	1
Liquid Fuel Sys Mtn Jrnymn	3E452	SSG	1	1	1	1	1	1	1	1	1
Liquid Fuel Sys Mtn Jrnymn	3E452	SRA	1	1	1	2	2	2	2	2	2
Liquid Fuel Sys Mtn Apr	3E432	A1C	2	2	2	2	2	2	2	2	2
TOTAL			34	35	36	37	38	39	40	41	42

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*Reference application instructions in paragraph 4.4.

STANDARD MANPOWER TABLE												
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE									
*Infrastructure Support/44EO			4017.5 - 29890.2									
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
CE Mgr	3E000	CMS										
CE Supt	3EX9X	SMS	1	1	1	1	1	1	1	1	1	1
Electrical Sys Crftmn	3E071	MSG	1	1	2	2	2	2	2	2	2	2
Electrical Sys Crftmn	3E071	TSG	2	2	2	2	2	2	2	2	3	3
Electrical Sys Jrnymn	3E051	SSG	4	4	4	4	4	4	4	4	4	4
Electrical Sys Jrnymn	3E051	SRA	5	5	5	5	5	5	5	5	5	6
Electrical Sys Apr	3E031	A1C	6	6	6	6	6	6	7	7	7	7
Electric Pwr Prod Crftmn	3E072	MSG	1	1	1	1	1	1	1	1	1	1
Electric Pwr Prod Crftmn	3E072	TSG	1	1	1	1	1	1	1	1	1	1
Electric Pwr Prod Jrnymn	3E052	SSG	2	2	2	2	2	2	2	2	2	2
Electric Pwr Prod Jrnymn	3E052	SRA	2	2	2	2	2	2	2	2	2	2
Electric Pwr Prod Apr	3E032	A1C	2	2	2	2	2	2	3	3	3	3
Utilities Sys Crftmn	3E471	MSG	1	1	1	1	1	1	1	1	1	1
Utilities Sys Crftmn	3E471	TSG	1	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SSG	2	2	2	2	2	2	2	2	2	2
Utilities Sys Jrnymn	3E451	SRA	3	3	3	3	3	3	3	3	3	3
Utilities Sys Apr	3E431	A1C	3	3	3	4	4	4	4	4	4	4
Liquid Fuel Sys Mtn Crftmn	3E472	MSG					1	1	1	1	1	1
Liquid Fuel Sys Mtn Crftmn	3E472	TSG	1	1	1	1	1	1	1	1	1	1
Liquid Fuel Sys Mtn Jrnymn	3E452	SSG	1	2	2	2	2	2	2	2	2	2
Liquid Fuel Sys Mtn Jrnymn	3E452	SRA	2	2	2	2	2	2	2	2	2	2
Liquid Fuel Sys Mtn Apr	3E432	A1C	2	2	2	2	2	2	2	2	2	2
TOTAL			43	44	45	46	47	48	49	50	51	
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
CE Mgr	3E000	CMS						1	1	1	1	1
CE Supt	3EX9X	SMS	1	1	1	1	1	1	1	1	1	1
Electrical Sys Crftmn	3E071	MSG	2	2	2	2	2	2	2	2	2	2
Electrical Sys Crftmn	3E071	TSG	3	3	3	3	3	3	3	3	3	3
Electrical Sys Jrnymn	3E051	SSG	4	4	4	5	5	5	5	5	5	5
Electrical Sys Jrnymn	3E051	SRA	6	6	6	6	6	6	6	6	6	7
Electrical Sys Apr	3E031	A1C	7	7	7	7	7	8	8	8	8	8
Electric Pwr Prod Crftmn	3E072	MSG	1	1	1	1	1	1	1	1	1	1
Electric Pwr Prod Crftmn	3E072	TSG	1	1	1	1	1	1	1	1	1	1
Electric Pwr Prod Jrnymn	3E052	SSG	2	2	2	2	2	2	2	2	2	2
Electric Pwr Prod Jrnymn	3E052	SRA	2	2	3	3	3	3	3	3	3	3
Electric Pwr Prod Apr	3E032	A1C	3	3	3	3	3	3	3	3	3	3
Utilities Sys Crftmn	3E471	MSG	1	1	1	1	1	1	1	1	1	1
Utilities Sys Crftmn	3E471	TSG	1	1	1	1	1	1	1	1	2	2
Utilities Sys Jrnymn	3E451	SSG	2	2	2	2	2	3	3	3	3	3
Utilities Sys Jrnymn	3E451	SRA	4	4	4	4	4	4	4	4	4	4
Utilities Sys Apr	3E431	A1C	4	4	4	4	4	4	4	4	4	4
Liquid Fuel Sys Mtn Crftmn	3E472	MSG	1	1	1	1	1	1	1	1	1	1
Liquid Fuel Sys Mtn Crftmn	3E472	TSG	1	1	1	1	1	1	1	1	1	1
Liquid Fuel Sys Mtn Jrnymn	3E452	SSG	2	2	2	2	2	2	2	2	2	2
Liquid Fuel Sys Mtn Jrnymn	3E452	SRA	2	2	2	2	2	2	2	3	3	3
Liquid Fuel Sys Mtn Apr	3E432	A1C	2	3	3	3	3	3	3	3	3	3
TOTAL			52	53	54	55	56	57	58	59	60	

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*Reference application instructions in paragraph 4.4.

STANDARD MANPOWER TABLE												
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE									
*Infrastructure Support/44EO			4017.5 - 29890.2									
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1	
CE Supt	3EX9X	SMS							1	1	1	
Electrical Sys Crftmn	3E071	MSG	2	2	2	2	2	2	2	2	2	
Electrical Sys Crftmn	3E071	TSG	3	3	3	3	3	3	3	3	3	
Electrical Sys Jrnymn	3E051	SSG	5	5	5	5	6	6	6	6	6	
Electrical Sys Jrnymn	3E051	SRA	7	7	7	7	7	7	7	7	8	
Electrical Sys Apr	3E031	A1C	8	8	8	9	9	9	9	9	9	
Electric Pwr Prod Crftmn	3E072	MSG	1	1	1	1	1	1	1	1	1	
Electric Pwr Prod Crftmn	3E072	TSG	1	1	1	1	1	1	1	1	1	
Electric Pwr Prod Jrnymn	3E052	SSG	2	2	2	2	2	2	2	2	2	
Electric Pwr Prod Jrnymn	3E052	SRA	4	4	4	4	4	4	4	4	4	
Electric Pwr Prod Apr	3E032	A1C	3	3	4	4	4	4	4	4	4	
Utilities Sys Crftmn	3E471	MSG	1	1	1	1	1	1	1	1	1	
Utilities Sys Crftmn	3E471	TSG	2	2	2	2	2	2	2	2	2	
Utilities Sys Jrnymn	3E451	SSG	3	3	3	3	3	3	3	3	3	
Utilities Sys Jrnymn	3E451	SRA	4	4	4	4	4	5	5	5	5	
Utilities Sys Apr	3E431	A1C	4	5	5	5	5	5	5	5	5	
Liquid Fuel Sys Mtn Crftmn	3E472	MSG	1	1	1	1	1	1	1	1	1	
Liquid Fuel Sys Mtn Crftmn	3E472	TSG	1	1	1	1	1	1	1	1	1	
Liquid Fuel Sys Mtn Jrnymn	3E452	SSG	2	2	2	2	2	2	2	2	2	
Liquid Fuel Sys Mtn Jrnymn	3E452	SRA	3	3	3	3	3	3	3	3	4	
Liquid Fuel Sys Mtn Apr	3E432	A1C	3	3	3	3	3	3	3	3	3	
TOTAL			61	62	63	64	65	66	67	68	69	
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1	
CE Supt	3EX9X	SMS	1	1	1	1	1	1	1	1	1	
Electrical Sys Crftmn	3E071	MSG	2	2	2	2	2	2	2	2	2	
Electrical Sys Crftmn	3E071	TSG	3	3	3	3	4	4	4	4	4	
Electrical Sys Jrnymn	3E051	SSG	6	6	6	6	6	6	7	7	7	
Electrical Sys Jrnymn	3E051	SRA	8	8	8	8	8	8	8	8	8	
Electrical Sys Apr	3E031	A1C	9	9	10	10	10	10	10	10	11	
Electric Pwr Prod Crftmn	3E072	MSG	1	1	1	1	1	1	1	1	1	
Electric Pwr Prod Crftmn	3E072	TSG	1	1	1	1	1	1	1	1	2	
Electric Pwr Prod Jrnymn	3E052	SSG	2	3	3	3	3	3	3	3	3	
Electric Pwr Prod Jrnymn	3E052	SRA	4	4	4	4	4	4	4	4	4	
Electric Pwr Prod Apr	3E032	A1C	4	4	4	4	4	4	4	4	4	
Utilities Sys Crftmn	3E471	MSG	1	1	1	1	1	1	1	1	1	
Utilities Sys Crftmn	3E471	TSG	2	2	2	2	2	2	2	2	2	
Utilities Sys Jrnymn	3E451	SSG	3	3	3	4	4	4	4	4	4	
Utilities Sys Jrnymn	3E451	SRA	5	5	5	5	5	6	6	6	6	
Utilities Sys Apr	3E431	A1C	5	5	5	5	5	5	5	5	5	
Liquid Fuel Sys Mtn Crftmn	3E472	MSG	1	1	1	1	1	1	1	1	1	
Liquid Fuel Sys Mtn Crftmn	3E472	TSG	1	1	1	1	1	1	1	1	1	
Liquid Fuel Sys Mtn Jrnymn	3E452	SSG	2	2	2	2	2	2	2	2	2	
Liquid Fuel Sys Mtn Jrnymn	3E452	SRA	4	4	4	4	4	4	4	4	4	
Liquid Fuel Sys Mtn Apr	3E432	A1C	4	4	4	4	4	4	4	4	4	
TOTAL			70	71	72	73	74	75	76	77	78	

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*Reference application instructions in paragraph 4.4.

STANDARD MANPOWER TABLE											
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
*Infrastructure Support/44EO			4017.5 - 29890.2								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	1	1	1	1	2	2	2	2	2
Electrical Sys Crftmn	3E071	MSG	2	3	3	3	3	3	3	3	3
Electrical Sys Crftmn	3E071	TSG	4	4	4	4	4	4	4	4	4
Electrical Sys Jrnymn	3E051	SSG	7	7	7	7	7	7	7	7	8
Electrical Sys Jrnymn	3E051	SRA	9	9	9	9	9	9	10	10	10
Electrical Sys Apr	3E031	A1C	11	11	11	11	11	11	11	12	12
Electric Pwr Prod Crftmn	3E072	MSG	1	1	1	1	1	1	1	1	1
Electric Pwr Prod Crftmn	3E072	TSG	2	2	2	2	2	2	2	2	2
Electric Pwr Prod Jrnymn	3E052	SSG	3	3	3	3	3	3	3	3	3
Electric Pwr Prod Jrnymn	3E052	SRA	4	4	4	4	4	4	4	4	4
Electric Pwr Prod Apr	3E032	A1C	4	4	5	5	5	5	5	5	5
Utilities Sys Crftmn	3E471	MSG	1	1	1	1	1	1	1	1	1
Utilities Sys Crftmn	3E471	TSG	2	2	2	2	2	2	2	2	2
Utilities Sys Jrnymn	3E451	SSG	4	4	4	4	4	4	4	4	4
Utilities Sys Jrnymn	3E451	SRA	6	6	6	6	6	6	6	6	6
Utilities Sys Apr	3E431	A1C	5	5	5	6	6	6	6	6	6
Liquid Fuel Sys Mtn Crftmn	3E472	MSG	1	1	1	1	1	1	1	1	1
Liquid Fuel Sys Mtn Crftmn	3E472	TSG	1	1	1	1	1	1	1	1	1
Liquid Fuel Sys Mtn Jrnymn	3E452	SSG	2	2	2	2	2	3	3	3	3
Liquid Fuel Sys Mtn Jrnymn	3E452	SRA	4	4	4	4	4	4	4	4	4
Liquid Fuel Sys Mtn Apr	3E432	A1C	4	4	4	4	4	4	4	4	4
TOTAL			79	80	81	82	83	84	85	86	87
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	2	2	2	2	2	2	2	2	2
Electrical Sys Crftmn	3E071	MSG	3	3	3	3	3	3	3	3	3
Electrical Sys Crftmn	3E071	TSG	4	4	4	4	5	5	5	5	5
Electrical Sys Jrnymn	3E051	SSG	8	8	8	8	8	8	8	8	8
Electrical Sys Jrnymn	3E051	SRA	10	10	10	10	10	10	10	10	10
Electrical Sys Apr	3E031	A1C	12	12	12	12	12	12	13	13	13
Electric Pwr Prod Crftmn	3E072	MSG	1	1	1	1	1	1	1	1	1
Electric Pwr Prod Crftmn	3E072	TSG	2	2	2	2	2	2	2	2	2
Electric Pwr Prod Jrnymn	3E052	SSG	3	3	3	3	3	3	3	3	3
Electric Pwr Prod Jrnymn	3E052	SRA	4	4	5	5	5	5	5	5	5
Electric Pwr Prod Apr	3E032	A1C	5	5	5	5	5	5	5	5	5
Utilities Sys Crftmn	3E471	MSG	1	1	1	1	1	1	1	1	1
Utilities Sys Crftmn	3E471	TSG	2	2	2	2	2	2	2	2	2
Utilities Sys Jrnymn	3E451	SSG	4	4	4	4	4	5	5	5	5
Utilities Sys Jrnymn	3E451	SRA	7	7	7	7	7	7	7	7	7
Utilities Sys Apr	3E431	A1C	6	6	6	7	7	7	7	7	7
Liquid Fuel Sys Mtn Crftmn	3E472	MSG	1	1	1	1	1	1	1	1	1
Liquid Fuel Sys Mtn Crftmn	3E472	TSG	1	1	1	1	1	1	1	1	1
Liquid Fuel Sys Mtn Jrnymn	3E452	SSG	3	3	3	3	3	3	3	3	3
Liquid Fuel Sys Mtn Jrnymn	3E452	SRA	4	5	5	5	5	5	5	5	5
Liquid Fuel Sys Mtn Apr	3E432	A1C	4	4	4	4	4	4	4	5	5
TOTAL			88	89	90	91	92	93	94	95	96

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*Reference application instructions in paragraph 4.4.

STANDARD MANPOWER TABLE												
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE									
*Infrastructure Support/44EO			4017.5 - 29890.2									
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1	
CE Supt	3EX9X	SMS	2	2	2	2	2	2	2	2	3	
Electrical Sys Crftmn	3E071	MSG	3	3	3	3	3	3	3	3	3	
Electrical Sys Crftmn	3E071	TSG	5	5	5	5	5	5	5	6	6	
Electrical Sys Jrnymn	3E051	SSG	8	8	8	9	9	9	9	9	9	
Electrical Sys Jrnymn	3E051	SRA	10	11	11	11	11	11	11	11	11	
Electrical Sys Apr	3E031	A1C	13	13	13	13	13	14	14	14	14	
Electric Pwr Prod Crftmn	3E072	MSG	1	1	1	1	1	1	1	1	1	
Electric Pwr Prod Crftmn	3E072	TSG	2	2	2	2	2	2	2	2	2	
Electric Pwr Prod Jrnymn	3E052	SSG	3	3	3	3	3	3	3	3	3	
Electric Pwr Prod Jrnymn	3E052	SRA	5	5	5	5	5	5	5	5	5	
Electric Pwr Prod Apr	3E032	A1C	5	5	5	5	5	5	5	5	5	
Utilities Sys Crftmn	3E471	MSG	1	1	1	1	1	1	1	1	1	
Utilities Sys Crftmn	3E471	TSG	3	3	3	3	3	3	3	3	3	
Utilities Sys Jrnymn	3E451	SSG	5	5	5	5	5	5	6	6	6	
Utilities Sys Jrnymn	3E451	SRA	7	7	8	8	8	8	8	8	8	
Utilities Sys Apr	3E431	A1C	8	8	8	8	9	9	9	9	9	
Liquid Fuel Sys Mtn Crftmn	3E472	MSG	1	1	1	1	1	1	1	1	1	
Liquid Fuel Sys Mtn Crftmn	3E472	TSG	1	1	1	1	1	1	1	1	1	
Liquid Fuel Sys Mtn Jrnymn	3E452	SSG	3	3	3	3	3	3	3	3	3	
Liquid Fuel Sys Mtn Jrnymn	3E452	SRA	5	5	5	5	5	5	5	5	5	
Liquid Fuel Sys Mtn Apr	3E432	A1C	5	5	5	5	5	5	5	5	5	
TOTAL			97	98	99	100	101	102	103	104	105	
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1	
CE Supt	3EX9X	SMS	3	3	3	3	3	3	3	3	3	
Electrical Sys Crftmn	3E071	MSG	3	3	3	3	3	3	3	3	3	
Electrical Sys Crftmn	3E071	TSG	6	6	6	6	6	6	6	7	7	
Electrical Sys Jrnymn	3E051	SSG	9	9	9	9	9	9	10	10	10	
Electrical Sys Jrnymn	3E051	SRA	11	11	11	11	12	12	12	12	12	
Electrical Sys Apr	3E031	A1C	14	14	14	14	14	14	14	14	14	
Electric Pwr Prod Crftmn	3E072	MSG	1	1	1	1	1	1	1	1	1	
Electric Pwr Prod Crftmn	3E072	TSG	2	2	2	2	2	2	2	2	2	
Electric Pwr Prod Jrnymn	3E052	SSG	3	3	3	3	3	3	3	3	3	
Electric Pwr Prod Jrnymn	3E052	SRA	5	5	5	5	5	5	5	5	5	
Electric Pwr Prod Apr	3E032	A1C	5	6	6	6	6	6	6	6	6	
Utilities Sys Crftmn	3E471	MSG	1	1	1	2	2	2	2	2	2	
Utilities Sys Crftmn	3E471	TSG	4	4	4	4	4	4	4	4	4	
Utilities Sys Jrnymn	3E451	SSG	6	6	6	6	6	6	6	6	7	
Utilities Sys Jrnymn	3E451	SRA	8	8	8	8	8	9	9	9	9	
Utilities Sys Apr	3E431	A1C	9	9	10	10	10	10	10	10	10	
Liquid Fuel Sys Mtn Crftmn	3E472	MSG	1	1	1	1	1	1	1	1	1	
Liquid Fuel Sys Mtn Crftmn	3E472	TSG	1	1	1	1	1	1	1	1	1	
Liquid Fuel Sys Mtn Jrnymn	3E452	SSG	3	3	3	3	3	3	3	3	3	
Liquid Fuel Sys Mtn Jrnymn	3E452	SRA	5	5	5	5	5	5	5	5	5	
Liquid Fuel Sys Mtn Apr	3E432	A1C	5	5	5	5	5	5	5	5	5	
TOTAL			106	107	108	109	110	111	112	113	114	

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*Reference application instructions in paragraph 4.4.

STANDARD MANPOWER TABLE												
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE									
*Infrastructure Support/44EO			4017.5 - 29890.2									
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	3	3	3	3	3	3	3	3	3	3
Electrical Sys Crftmn	3E071	MSG	3	3	3	3	3	3	3	3	3	3
Electrical Sys Crftmn	3E071	TSG	7	7	7	7	7	7	7	8	8	8
Electrical Sys Jrnymn	3E051	SSG	10	10	10	10	10	11	11	11	11	11
Electrical Sys Jrnymn	3E051	SRA	12	12	12	13	13	13	13	13	13	13
Electrical Sys Apr	3E031	A1C	14	15	15	15	15	15	15	15	15	15
Electric Pwr Prod Crftmn	3E072	MSG	1	1	1	1	1	1	1	1	1	1
Electric Pwr Prod Crftmn	3E072	TSG	2	2	2	2	2	2	2	2	2	2
Electric Pwr Prod Jrnymn	3E052	SSG	3	3	3	3	3	3	3	3	3	3
Electric Pwr Prod Jrnymn	3E052	SRA	5	5	5	5	5	5	5	5	5	5
Electric Pwr Prod Apr	3E032	A1C	6	6	6	6	6	6	6	6	6	6
Utilities Sys Crftmn	3E471	MSG	2	2	2	2	2	2	2	2	2	3
Utilities Sys Crftmn	3E471	TSG	4	4	4	4	4	4	4	5	5	5
Utilities Sys Jrnymn	3E451	SSG	7	7	7	7	8	8	8	8	8	8
Utilities Sys Jrnymn	3E451	SRA	9	9	10	10	10	10	10	10	10	10
Utilities Sys Apr	3E431	A1C	11	11	11	11	11	11	11	11	11	11
Liquid Fuel Sys Mtn Crftmn	3E472	MSG	1	1	1	1	1	1	1	1	1	1
Liquid Fuel Sys Mtn Crftmn	3E472	TSG	1	1	1	1	1	1	1	1	1	1
Liquid Fuel Sys Mtn Jrnymn	3E452	SSG	3	3	3	3	3	3	3	3	3	3
Liquid Fuel Sys Mtn Jrnymn	3E452	SRA	5	5	5	5	5	5	5	5	5	5
Liquid Fuel Sys Mtn Apr	3E432	A1C	5	5	5	5	5	5	5	5	5	5
TOTAL			115	116	117	118	119	120	121	122	123	
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	3	3	3	3	3	3	3	3	3	3
Electrical Sys Crftmn	3E071	MSG	4	4	4	4	4	4	4	4	4	4
Electrical Sys Crftmn	3E071	TSG	8	8	8	8	8	8	8	8	8	9
Electrical Sys Jrnymn	3E051	SSG	11	11	11	11	11	11	11	12	12	12
Electrical Sys Jrnymn	3E051	SRA	13	13	13	13	13	14	14	14	14	14
Electrical Sys Apr	3E031	A1C	15	15	16	16	16	16	16	16	16	16
Electric Pwr Prod Crftmn	3E072	MSG	1	1	1	1	1	1	1	1	1	1
Electric Pwr Prod Crftmn	3E072	TSG	2	2	2	2	2	2	2	2	2	2
Electric Pwr Prod Jrnymn	3E052	SSG	3	3	3	3	3	3	3	3	3	3
Electric Pwr Prod Jrnymn	3E052	SRA	5	5	5	5	5	5	5	5	5	5
Electric Pwr Prod Apr	3E032	A1C	6	6	6	6	6	6	6	6	6	6
Utilities Sys Crftmn	3E471	MSG	3	3	3	3	3	3	3	3	3	3
Utilities Sys Crftmn	3E471	TSG	5	5	5	5	5	5	5	5	6	6
Utilities Sys Jrnymn	3E451	SSG	8	8	8	8	8	9	9	9	9	9
Utilities Sys Jrnymn	3E451	SRA	10	10	10	11	11	11	11	11	11	11
Utilities Sys Apr	3E431	A1C	11	12	12	12	12	12	12	12	12	12
Liquid Fuel Sys Mtn Crftmn	3E472	MSG	1	1	1	1	1	1	1	1	1	1
Liquid Fuel Sys Mtn Crftmn	3E472	TSG	1	1	1	1	1	1	1	1	1	1
Liquid Fuel Sys Mtn Jrnymn	3E452	SSG	3	3	3	3	3	3	3	3	3	3
Liquid Fuel Sys Mtn Jrnymn	3E452	SRA	5	5	5	5	5	5	5	5	5	5
Liquid Fuel Sys Mtn Apr	3E432	A1C	5	5	5	5	5	5	5	5	5	5
TOTAL			124	125	126	127	128	129	130	131	132	

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*Reference application instructions in paragraph 4.4.

STANDARD MANPOWER TABLE											
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
*Infrastructure Support/44EO			4017.5 - 29890.2								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	3	3	3	3	3	3	3	3	3
Electrical Sys Crftmn	3E071	MSG	4	4	4	4	4	4	4	4	4
Electrical Sys Crftmn	3E071	TSG	9	9	9	9	9	9	9	9	9
Electrical Sys Jrnymn	3E051	SSG	12	12	12	12	12	12	12	13	13
Electrical Sys Jrnymn	3E051	SRA	14	14	14	14	14	15	15	15	15
Electrical Sys Apr	3E031	A1C	16	16	16	17	17	17	17	17	17
Electric Pwr Prod Crftmn	3E072	MSG	1	1	1	1	1	1	1	1	1
Electric Pwr Prod Crftmn	3E072	TSG	2	2	2	2	2	2	2	2	2
Electric Pwr Prod Jrnymn	3E052	SSG	3	3	3	3	3	3	3	3	3
Electric Pwr Prod Jrnymn	3E052	SRA	5	5	5	5	5	5	5	5	5
Electric Pwr Prod Apr	3E032	A1C	6	7	7	7	7	7	7	7	7
Utilities Sys Crftmn	3E471	MSG	3	3	3	3	3	3	3	3	3
Utilities Sys Crftmn	3E471	TSG	6	6	6	6	6	6	6	6	7
Utilities Sys Jrnymn	3E451	SSG	9	9	9	9	9	9	10	10	10
Utilities Sys Jrnymn	3E451	SRA	11	11	11	11	12	12	12	12	12
Utilities Sys Apr	3E431	A1C	12	12	13	13	13	13	13	13	13
Liquid Fuel Sys Mtn Crftmn	3E472	MSG	1	1	1	1	1	1	1	1	1
Liquid Fuel Sys Mtn Crftmn	3E472	TSG	1	1	1	1	1	1	1	1	1
Liquid Fuel Sys Mtn Jrnymn	3E452	SSG	3	3	3	3	3	3	3	3	3
Liquid Fuel Sys Mtn Jrnymn	3E452	SRA	5	5	5	5	5	5	5	5	5
Liquid Fuel Sys Mtn Apr	3E432	A1C	6	6	6	6	6	6	6	6	6
TOTAL			133	134	135	136	137	138	139	140	141
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	3	3	3	3	3	3	3	3	3
Electrical Sys Crftmn	3E071	MSG	4	4	4	4	4	4	4	4	4
Electrical Sys Crftmn	3E071	TSG	9	9	9	9	9	9	9	9	10
Electrical Sys Jrnymn	3E051	SSG	13	13	13	13	13	13	13	14	14
Electrical Sys Jrnymn	3E051	SRA	15	15	15	15	15	16	16	16	16
Electrical Sys Apr	3E031	A1C	17	17	17	18	18	18	18	18	18
Electric Pwr Prod Crftmn	3E072	MSG	1	1	1	1	1	1	1	1	1
Electric Pwr Prod Crftmn	3E072	TSG	2	2	2	2	2	2	2	2	2
Electric Pwr Prod Jrnymn	3E052	SSG	3	4	4	4	4	4	4	4	4
Electric Pwr Prod Jrnymn	3E052	SRA	5	5	5	5	5	5	5	5	5
Electric Pwr Prod Apr	3E032	A1C	7	7	7	7	7	7	7	7	7
Utilities Sys Crftmn	3E471	MSG	3	3	3	3	3	3	3	3	3
Utilities Sys Crftmn	3E471	TSG	7	7	7	7	7	7	7	7	7
Utilities Sys Jrnymn	3E451	SSG	10	10	10	10	10	10	11	11	11
Utilities Sys Jrnymn	3E451	SRA	12	12	12	12	13	13	13	13	13
Utilities Sys Apr	3E431	A1C	13	13	14	14	14	14	14	14	14
Liquid Fuel Sys Mtn Crftmn	3E472	MSG	1	1	1	1	1	1	1	1	1
Liquid Fuel Sys Mtn Crftmn	3E472	TSG	2	2	2	2	2	2	2	2	2
Liquid Fuel Sys Mtn Jrnymn	3E452	SSG	3	3	3	3	3	3	3	3	3
Liquid Fuel Sys Mtn Jrnymn	3E452	SRA	5	5	5	5	5	5	5	5	5
Liquid Fuel Sys Mtn Apr	3E432	A1C	6	6	6	6	6	6	6	6	6
TOTAL			142	143	144	145	146	147	148	149	150

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*Reference application instructions in paragraph 4.4.

STANDARD MANPOWER TABLE											
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
*Infrastructure Support/44EO			4017.5 - 29890.2								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	3	3	3	3	3	3	3	3	3
Electrical Sys Crftmn	3E071	MSG	4	4	5	5	5	5	5	5	5
Electrical Sys Crftmn	3E071	TSG	10	10	10	10	10	10	10	10	10
Electrical Sys Jrnymn	3E051	SSG	14	14	14	14	14	14	14	14	15
Electrical Sys Jrnymn	3E051	SRA	16	16	16	16	16	16	17	17	17
Electrical Sys Apr	3E031	A1C	18	18	18	18	19	19	19	19	19
Electric Pwr Prod Crftmn	3E072	MSG	1	1	1	1	1	1	1	1	1
Electric Pwr Prod Crftmn	3E072	TSG	3	3	3	3	3	3	3	3	3
Electric Pwr Prod Jrnymn	3E052	SSG	4	4	4	4	4	4	4	4	4
Electric Pwr Prod Jrnymn	3E052	SRA	5	5	5	5	5	5	5	5	5
Electric Pwr Prod Apr	3E032	A1C	7	7	7	7	7	7	7	7	7
Utilities Sys Crftmn	3E471	MSG	3	3	3	3	3	3	3	3	3
Utilities Sys Crftmn	3E471	TSG	7	8	8	8	8	8	8	8	8
Utilities Sys Jrnymn	3E451	SSG	11	11	11	11	11	11	11	12	12
Utilities Sys Jrnymn	3E451	SRA	13	13	13	13	13	14	14	14	14
Utilities Sys Apr	3E431	A1C	14	14	14	15	15	15	15	15	15
Liquid Fuel Sys Mtn Crftmn	3E472	MSG	1	1	1	1	1	1	1	1	1
Liquid Fuel Sys Mtn Crftmn	3E472	TSG	2	2	2	2	2	2	2	2	2
Liquid Fuel Sys Mtn Jrnymn	3E452	SSG	3	3	3	3	3	3	3	3	3
Liquid Fuel Sys Mtn Jrnymn	3E452	SRA	5	5	5	5	5	5	5	5	5
Liquid Fuel Sys Mtn Apr	3E432	A1C	6	6	6	6	6	6	6	6	6
TOTAL			151	152	153	154	155	156	157	158	159
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	3	3	3	3	3	3	3	3	3
Electrical Sys Crftmn	3E071	MSG	5	5	5	5	5	5	5	5	5
Electrical Sys Crftmn	3E071	TSG	11	11	11	11	11	11	11	11	11
Electrical Sys Jrnymn	3E051	SSG	15	15	15	15	15	15	15	15	16
Electrical Sys Jrnymn	3E051	SRA	17	17	17	17	17	17	18	18	18
Electrical Sys Apr	3E031	A1C	19	19	19	19	20	20	20	20	20
Electric Pwr Prod Crftmn	3E072	MSG	1	1	1	1	1	1	1	1	1
Electric Pwr Prod Crftmn	3E072	TSG	3	3	3	3	3	3	3	3	3
Electric Pwr Prod Jrnymn	3E052	SSG	4	4	4	4	4	4	4	4	4
Electric Pwr Prod Jrnymn	3E052	SRA	5	5	6	6	6	6	6	6	6
Electric Pwr Prod Apr	3E032	A1C	7	7	7	7	7	7	7	7	7
Utilities Sys Crftmn	3E471	MSG	3	4	4	4	4	4	4	4	4
Utilities Sys Crftmn	3E471	TSG	8	8	8	8	8	8	8	8	8
Utilities Sys Jrnymn	3E451	SSG	12	12	12	12	12	12	12	13	13
Utilities Sys Jrnymn	3E451	SRA	14	14	14	14	14	15	15	15	15
Utilities Sys Apr	3E431	A1C	15	15	15	16	16	16	16	16	16
Liquid Fuel Sys Mtn Crftmn	3E472	MSG	1	1	1	1	1	1	1	1	1
Liquid Fuel Sys Mtn Crftmn	3E472	TSG	2	2	2	2	2	2	2	2	2
Liquid Fuel Sys Mtn Jrnymn	3E452	SSG	3	3	3	3	3	3	3	3	3
Liquid Fuel Sys Mtn Jrnymn	3E452	SRA	5	5	5	5	5	5	5	5	5
Liquid Fuel Sys Mtn Apr	3E432	A1C	6	6	6	6	6	6	6	6	6
TOTAL			160	161	162	163	164	165	166	167	168

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*Reference application instructions in paragraph 4.4.

STANDARD MANPOWER TABLE											
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
*Infrastructure Support/44EO			4017.5 - 29890.2								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	3	4	4	4	4	4	4	4	4
Electrical Sys Crftmn	3E071	MSG	5	5	5	5	5	5	5	5	5
Electrical Sys Crftmn	3E071	TSG	11	11	11	11	11	11	11	11	12
Electrical Sys Jrnymn	3E051	SSG	16	16	16	16	16	16	16	17	17
Electrical Sys Jrnymn	3E051	SRA	18	18	18	18	18	19	19	19	19
Electrical Sys Apr	3E031	A1C	20	20	20	21	21	21	21	21	21
Electric Pwr Prod Crftmn	3E072	MSG	1	1	1	1	1	1	1	1	1
Electric Pwr Prod Crftmn	3E072	TSG	3	3	3	3	3	3	3	3	3
Electric Pwr Prod Jrnymn	3E052	SSG	4	4	4	4	4	4	4	4	4
Electric Pwr Prod Jrnymn	3E052	SRA	6	6	6	6	6	6	6	6	6
Electric Pwr Prod Apr	3E032	A1C	7	7	7	7	7	7	7	7	7
Utilities Sys Crftmn	3E471	MSG	4	4	4	4	4	4	4	4	4
Utilities Sys Crftmn	3E471	TSG	9	9	9	9	9	9	9	9	9
Utilities Sys Jrnymn	3E451	SSG	13	13	13	13	13	13	14	14	14
Utilities Sys Jrnymn	3E451	SRA	15	15	15	15	16	16	16	16	16
Utilities Sys Apr	3E431	A1C	16	16	17	17	17	17	17	17	17
Liquid Fuel Sys Mtn Crftmn	3E472	MSG	1	1	1	1	1	1	1	1	1
Liquid Fuel Sys Mtn Crftmn	3E472	TSG	2	2	2	2	2	2	2	2	2
Liquid Fuel Sys Mtn Jrnymn	3E452	SSG	3	3	3	3	3	3	3	3	3
Liquid Fuel Sys Mtn Jrnymn	3E452	SRA	5	5	5	5	5	5	5	5	5
Liquid Fuel Sys Mtn Apr	3E432	A1C	6	6	6	6	6	6	6	6	6
TOTAL			169	170	171	172	173	174	175	176	177
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	4	4	4	4	4	4	4	4	4
Electrical Sys Crftmn	3E071	MSG	6	6	6	6	6	6	6	6	6
Electrical Sys Crftmn	3E071	TSG	12	12	12	12	12	12	12	12	13
Electrical Sys Jrnymn	3E051	SSG	17	17	17	17	17	17	18	18	18
Electrical Sys Jrnymn	3E051	SRA	19	19	19	19	20	20	20	20	20
Electrical Sys Apr	3E031	A1C	21	22	22	22	22	22	22	22	22
Electric Pwr Prod Crftmn	3E072	MSG	1	1	1	1	1	1	1	1	1
Electric Pwr Prod Crftmn	3E072	TSG	3	3	3	3	3	3	3	3	3
Electric Pwr Prod Jrnymn	3E052	SSG	4	4	4	4	4	4	4	4	4
Electric Pwr Prod Jrnymn	3E052	SRA	6	6	6	6	6	6	6	6	6
Electric Pwr Prod Apr	3E032	A1C	7	7	7	7	7	7	7	7	7
Utilities Sys Crftmn	3E471	MSG	4	4	4	4	4	4	4	4	4
Utilities Sys Crftmn	3E471	TSG	9	9	9	9	9	9	10	10	10
Utilities Sys Jrnymn	3E451	SSG	14	14	14	14	14	15	15	15	15
Utilities Sys Jrnymn	3E451	SRA	16	16	16	17	17	17	17	17	17
Utilities Sys Apr	3E431	A1C	17	17	18	18	18	18	18	18	18
Liquid Fuel Sys Mtn Crftmn	3E472	MSG	1	1	1	1	1	1	1	1	1
Liquid Fuel Sys Mtn Crftmn	3E472	TSG	2	2	2	2	2	2	2	2	2
Liquid Fuel Sys Mtn Jrnymn	3E452	SSG	3	3	3	3	3	3	3	3	3
Liquid Fuel Sys Mtn Jrnymn	3E452	SRA	5	5	5	5	5	5	5	5	5
Liquid Fuel Sys Mtn Apr	3E432	A1C	6	6	6	6	6	6	6	6	6
TOTAL			178	179	180	181	182	183	184	185	186

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*Reference application instructions in paragraph 4.4.

MANPOWER TABLE

WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE									
*Heavy Repair/44EO			4017.5 - 32782.8									
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS										
CE Crftmn	3EX7X	MSG										
Electrical Sys Crftmn	3E071	TSG										
Electrical Sys Jrnymn	3E051	SSG	1	1	1	1	1	1	1	1	1	1
Electrical Sys Jrnymn	3E051	SRA	1	1	1	1	1	1	1	1	1	1
Electrical Sys Apr	3E031	A1C		1	1	1	1	1	1	1	1	1
HVAC and Refrig Crftmn	3E171	TSG										
HVAC and Refrig Jrnymn	3E151	SSG	1	1	1	1	1	1	1	1	2	2
HVAC and Refrig Jrnymn	3E151	SRA	1	1	1	1	1	1	1	1	1	1
HVAC and Refrig Apr	3E131	A1C										
Pavement/Const Equip Crftmn	3E271	MSG								1	1	1
Pavement/Const Equip Crftmn	3E271	TSG	1	1	1	1	1	1	1	1	1	1
Pavement/Const Equip Jrnymn	3E251	SSG	2	2	2	2	2	2	2	2	2	2
Pavement/Const Equip Jrnymn	3E251	SRA	3	3	3	4	4	4	4	4	4	4
Pavement/Const Equip Apr	3E231	A1C	3	3	4	4	4	4	4	4	4	5
Structural Crftmn	3E371	MSG										
Structural Crftmn	3E371	TSG	1	1	1	1	1	1	1	1	1	1
Structural Jrnymn	3E351	SSG	1	1	1	1	2	2	2	2	2	2
Structural Jrnymn	3E351	SRA	2	2	2	2	2	2	2	2	2	2
Structural Apr	3E331	A1C	2	2	2	2	2	2	2	2	2	2
★Operations Jrnymn	3E651	SSG	1	1	1	1	1	1	1	1	1	1
★Environmental Controls Crftmn	3E473	TSG										
★Environmental Controls Jrnymn	3E453	SSG	1	1	1	1	1	1	1	1	1	1
★Environmental Controls Jrnymn	3E453	SRA	1	1	1	1	1	1	1	1	1	1
★Environmental Controls Apr	3E433	A1C						1	1	1	1	1
Utilities Sys Crftmn	3E471	TSG										
Utilities Sys Jrnymn	3E451	SSG	1	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SRA	1	1	1	1	1	1	1	1	1	1
Utilities Sys Apr	3E431	A1C										
TOTAL			25	26	27	28	29	30	31	32	33	

*Reference application instructions in paragraph 4.4.

MANPOWER TABLE											
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
*Heavy Repair/44EO			4017.5 - 32782.8								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS									
CE Crftmn	3EX7X	MSG									
Electrical Sys Crftmn	3E071	TSG									
Electrical Sys Jrnymn	3E051	SSG	1	1	1	1	1	1	1	1	1
Electrical Sys Jrnymn	3E051	SRA	1	1	1	1	1	1	1	2	2
Electrical Sys Apr	3E031	A1C	1	1	1	1	1	1	1	1	1
HVAC and Refrig Crftmn	3E171	TSG									
HVAC and Refrig Jrnymn	3E151	SSG	2	2	2	2	2	2	2	2	2
HVAC and Refrig Jrnymn	3E151	SRA	1	1	1	1	1	1	1	1	1
HVAC and Refrig Apr	3E131	A1C									
Pavement/Const Equip Crftmn	3E271	MSG	1	1	1	1	1	1	1	1	1
Pavement/Const Equip Crftmn	3E271	TSG	1	1	1	1	1	1	1	1	1
Pavement/Const Equip Jrnymn	3E251	SSG	2	2	2	2	2	2	3	3	3
Pavement/Const Equip Jrnymn	3E251	SRA	4	5	5	5	5	5	5	5	5
Pavement/Const Equip Apr	3E231	A1C	5	5	5	6	6	6	6	6	6
Structural Crftmn	3E371	MSG	1	1	1	1	1	1	1	1	1
Structural Crftmn	3E371	TSG	1	1	1	1	1	1	1	1	1
Structural Jrnymn	3E351	SSG	2	2	2	2	2	2	2	2	2
Structural Jrnymn	3E351	SRA	2	2	2	2	3	3	3	3	3
Structural Apr	3E331	A1C	2	2	3	3	3	3	3	3	4
★Operations Jrnymn	3E651	SSG	1	1	1	1	1	1	1	1	1
★Environmental Controls Crftmn	3E473	TSG									
★Environmental Controls Jrnymn	3E453	SSG	1	1	1	1	1	1	1	1	1
★Environmental Controls Jrnymn	3E453	SRA	1	1	1	1	1	1	1	1	1
★Environmental Controls Apr	3E433	A1C	1	1	1	1	1	1	1	1	1
Utilities Sys Crftmn	3E471	TSG									
Utilities Sys Jrnymn	3E451	SSG	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SRA	1	1	1	1	1	1	1	1	1
Utilities Sys Apr	3E431	A1C						1	1	1	1
TOTAL			34	35	36	37	38	39	40	41	42

*Reference application instructions in paragraph 4.4.

MANPOWER TABLE

WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE									
*Heavy Repair/44EO			4017.5 - 32782.8									
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS									1	1
CE Crftmn	3EX7X	MSG										
Electrical Sys Crftmn	3E071	TSG		1	1	1	1	1	1	1	1	1
Electrical Sys Jrnymn	3E051	SSG	1	1	1	1	1	1	1	1	1	1
Electrical Sys Jrnymn	3E051	SRA	2	2	2	2	2	2	2	2	2	2
Electrical Sys Apr	3E031	A1C	1	1	1	1	1	1	1	1	1	1
HVAC and Refrig Crftmn	3E171	TSG										
HVAC and Refrig Jrnymn	3E151	SSG	2	2	2	2	2	2	2	2	2	2
HVAC and Refrig Jrnymn	3E151	SRA	1	1	1	1	1	1	1	1	1	1
HVAC and Refrig Apr	3E131	A1C										
Pavement/Const Equip Crftmn	3E271	MSG	1	1	1	1	1	1	1	1	1	1
Pavement/Const Equip Crftmn	3E271	TSG	1	1	1	1	1	2	2	2	2	2
Pavement/Const Equip Jrnymn	3E251	SSG	3	3	3	3	3	3	3	3	3	3
Pavement/Const Equip Jrnymn	3E251	SRA	5	5	5	5	5	5	5	6	6	7
Pavement/Const Equip Apr	3E231	A1C	7	7	7	7	8	8	8	8	8	8
Structural Crftmn	3E371	MSG	1	1	1	1	1	1	1	1	1	1
Structural Crftmn	3E371	TSG	1	1	1	1	1	1	1	1	1	1
Structural Jrnymn	3E351	SSG	2	2	3	3	3	3	3	3	3	3
Structural Jrnymn	3E351	SRA	3	3	3	3	3	3	3	3	3	3
Structural Apr	3E331	A1C	4	4	4	4	4	4	4	4	4	4
★Operations Jrnymn	3E651	SSG	1	1	1	1	1	1	1	1	1	1
★Environmental Controls Crftmn	3E473	TSG				1	1	1	1	1	1	1
★Environmental Controls Jrnymn	3E453	SSG	1	1	1	1	1	1	1	1	1	1
★Environmental Controls Jrnymn	3E453	SRA	1	1	1	1	1	1	1	1	1	1
★Environmental Controls Apr	3E433	A1C	1	1	1	1	1	1	1	1	1	1
Utilities Sys Crftmn	3E471	TSG										
Utilities Sys Jrnymn	3E451	SSG	1	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SRA	1	1	1	1	1	1	1	1	1	1
Utilities Sys Apr	3E431	A1C	1	1	1	1	1	1	1	1	1	1
TOTAL			43	44	45	46	47	48	49	50	51	

*Reference application instructions in paragraph 4.4.

MANPOWER TABLE												
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE									
*Heavy Repair/44EO			4017.5 - 32782.8									
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	1	1	1	1	1	1	1	1	1	1
CE Crftmn	3EX7X	MSG	1	1	1	1	1	1	1	1	1	1
Electrical Sys Crftmn	3E071	TSG	1	1	1	1	1	1	1	1	1	1
Electrical Sys Jrnymn	3E051	SSG	1	1	1	1	1	1	1	1	1	1
Electrical Sys Jrnymn	3E051	SRA	2	2	2	2	2	2	2	2	2	2
Electrical Sys Apr	3E031	A1C	1	1	1	1	1	1	1	1	1	2
HVAC and Refrig Crftmn	3E171	TSG										
HVAC and Refrig Jrnymn	3E151	SSG	2	2	2	2	2	2	2	2	2	2
HVAC and Refrig Jrnymn	3E151	SRA	1	1	1	1	1	1	1	1	1	1
HVAC and Refrig Apr	3E131	A1C										
Pavement/Const Equip Crftmn	3E271	MSG	1	1	1	1	1	1	1	1	1	1
Pavement/Const Equip Crftmn	3E271	TSG	2	2	2	2	2	2	2	2	2	2
Pavement/Const Equip Jrnymn	3E251	SSG	3	3	3	3	4	4	4	4	4	4
Pavement/Const Equip Jrnymn	3E251	SRA	7	7	7	7	7	7	7	7	7	7
Pavement/Const Equip Apr	3E231	A1C	8	9	9	9	9	9	9	9	10	10
Structural Crftmn	3E371	MSG	1	1	1	1	1	1	1	1	1	1
Structural Crftmn	3E371	TSG	1	1	2	2	2	2	2	2	2	2
Structural Jrnymn	3E351	SSG	3	3	3	3	3	3	3	3	3	3
Structural Jrnymn	3E351	SRA	3	3	3	4	4	4	4	5	5	5
Structural Apr	3E331	A1C	4	4	4	4	4	4	5	5	5	5
★Operations Jrnymn	3E651	SSG	1	1	1	1	1	1	1	1	1	1
★Environmental Controls Crftmn	3E473	TSG	1	1	1	1	1	1	1	1	1	1
★Environmental Controls Jrnymn	3E453	SSG	1	1	1	1	1	1	1	1	1	1
★Environmental Controls Jrnymn	3E453	SRA	1	1	1	1	1	1	1	1	1	1
★Environmental Controls Apr	3E433	A1C	1	1	1	1	1	1	1	1	1	1
Utilities Sys Crftmn	3E471	TSG										
Utilities Sys Jrnymn	3E451	SSG	1	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SRA	1	1	1	1	1	1	1	1	1	1
Utilities Sys Apr	3E431	A1C	1	1	1	1	1	1	1	1	1	1
TOTAL			52	53	54	55	56	57	58	59	60	

*Reference application instructions in paragraph 4.4.

MANPOWER TABLE

WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE									
*Heavy Repair/44EO			4017.5 - 32782.8									
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
			61	62	63	64	65	66	67	68	69	
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	1	1	1	1	1	1	1	1	1	1
CE Crftmn	3EX7X	MSG	1	1	1	1	1	1	1	1	1	1
Electrical Sys Crftmn	3E071	TSG	1	1	1	1	1	1	1	1	1	1
Electrical Sys Jrnymn	3E051	SSG	1	1	1	1	1	2	2	2	2	2
Electrical Sys Jrnymn	3E051	SRA	2	2	2	2	2	2	2	2	2	2
Electrical Sys Apr	3E031	A1C	2	2	2	2	2	2	2	2	2	3
HVAC and Refrig Crftmn	3E171	TSG			1	1	1	1	1	1	1	1
HVAC and Refrig Jrnymn	3E151	SSG	2	2	2	2	2	2	2	2	2	2
HVAC and Refrig Jrnymn	3E151	SRA	2	2	2	2	2	2	2	2	2	2
HVAC and Refrig Apr	3E131	A1C										
Pavement/Const Equip Crftmn	3E271	MSG	1	1	1	1	1	1	1	1	1	1
Pavement/Const Equip Crftmn	3E271	TSG	2	2	2	2	2	2	2	2	2	2
Pavement/Const Equip Jrnymn	3E251	SSG	4	4	4	4	4	4	4	4	4	4
Pavement/Const Equip Jrnymn	3E251	SRA	7	8	8	8	9	9	9	9	9	9
Pavement/Const Equip Apr	3E231	A1C	10	10	10	10	10	10	11	11	11	11
Structural Crftmn	3E371	MSG	1	1	1	1	1	1	1	1	1	1
Structural Crftmn	3E371	TSG	2	2	2	2	2	2	2	2	2	2
Structural Jrnymn	3E351	SSG	3	3	3	3	3	3	3	3	3	4
Structural Jrnymn	3E351	SRA	5	5	5	5	5	5	5	5	5	5
Structural Apr	3E331	A1C	5	5	5	6	6	6	6	6	6	6
★Operations Jrnymn	3E651	SSG	1	1	1	1	1	1	1	1	1	1
★Environmental Controls Crftmn	3E473	TSG	1	1	1	1	1	1	1	1	1	1
★Environmental Controls Jrnymn	3E453	SSG	1	1	1	1	1	1	1	1	1	1
★Environmental Controls Jrnymn	3E453	SRA	1	1	1	1	1	1	1	1	1	1
★Environmental Controls Apr	3E433	A1C	1	1	1	1	1	1	1	1	1	1
Utilities Sys Crftmn	3E471	TSG										
Utilities Sys Jrnymn	3E451	SSG	1	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SRA	1	1	1	1	1	1	1	1	1	1
Utilities Sys Apr	3E431	A1C	1	1	1	1	1	1	1	1	1	1
TOTAL			61	62	63	64	65	66	67	68	69	

*Reference application instructions in paragraph 4.4.

MANPOWER TABLE											
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
*Heavy Repair/44EO			4017.5 - 32782.8								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	1	1	1	1	1	1	1	1	1
CE Crftmn	3EX7X	MSG	1	1	1	1	1	1	1	1	1
Electrical Sys Crftmn	3E071	TSG	1	1	1	1	1	1	1	1	1
Electrical Sys Jrnymn	3E051	SSG	2	2	2	2	2	2	2	2	2
Electrical Sys Jrnymn	3E051	SRA	2	2	2	2	2	2	2	2	2
Electrical Sys Apr	3E031	A1C	3	3	3	3	3	3	3	3	3
HVAC and Refrig Crftmn	3E171	TSG	1	1	1	1	1	1	1	1	1
HVAC and Refrig Jrnymn	3E151	SSG	2	2	2	2	2	2	2	2	2
HVAC and Refrig Jrnymn	3E151	SRA	2	2	2	2	2	2	2	2	2
HVAC and Refrig Apr	3E131	A1C									
Pavement/Const Equip Crftmn	3E271	MSG	1	1	1	1	1	1	1	1	1
Pavement/Const Equip Crftmn	3E271	TSG	3	3	3	3	3	3	3	3	3
Pavement/Const Equip Jrnymn	3E251	SSG	4	4	4	4	5	5	5	5	5
Pavement/Const Equip Jrnymn	3E251	SRA	9	9	10	10	10	10	10	10	10
Pavement/Const Equip Apr	3E231	A1C	11	11	11	11	11	11	12	12	13
Structural Crftmn	3E371	MSG	1	1	1	1	1	1	1	1	1
Structural Crftmn	3E371	TSG	2	2	2	2	2	2	2	2	2
Structural Jrnymn	3E351	SSG	4	4	4	4	4	4	4	4	4
Structural Jrnymn	3E351	SRA	5	5	5	5	5	5	5	6	6
Structural Apr	3E331	A1C	6	6	6	6	6	7	7	7	7
★Operations Jrnymn	3E651	SSG	1	1	1	1	1	1	1	1	1
★Environmental Controls Crftmn	3E473	TSG	1	1	1	1	1	1	1	1	1
★Environmental Controls Jrnymn	3E453	SSG	1	1	1	1	1	1	1	1	1
★Environmental Controls Jrnymn	3E453	SRA	1	2	2	2	2	2	2	2	2
★Environmental Controls Apr	3E433	A1C	1	1	1	1	1	1	1	1	1
Utilities Sys Crftmn	3E471	TSG				1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SSG	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SRA	1	1	1	1	1	1	1	1	1
Utilities Sys Apr	3E431	A1C	1	1	1	1	1	1	1	1	1
TOTAL			70	71	72	73	74	75	76	77	78

*Reference application instructions in paragraph 4.4.

MANPOWER TABLE												
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE									
*Heavy Repair/44EO			4017.5 - 32782.8									
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1	
CE Supt	3EX9X	SMS	1	2	2	2	2	2	2	2	2	
CE Crftmn	3EX7X	MSG	1	1	1	1	1	1	1	1	1	
Electrical Sys Crftmn	3E071	TSG	1	1	1	1	1	1	1	1	1	
Electrical Sys Jrnymn	3E051	SSG	2	2	2	2	2	2	2	2	2	
Electrical Sys Jrnymn	3E051	SRA	2	2	2	2	2	2	2	2	2	
Electrical Sys Apr	3E031	A1C	3	3	3	3	3	3	3	3	3	
HVAC and Refrig Crftmn	3E171	TSG	1	1	1	1	1	1	1	1	1	
HVAC and Refrig Jrnymn	3E151	SSG	2	2	2	2	2	2	2	2	2	
HVAC and Refrig Jrnymn	3E151	SRA	2	2	2	2	2	2	2	2	2	
HVAC and Refrig Apr	3E131	A1C									1	
Pavement/Const Equip Crftmn	3E271	MSG	1	1	1	1	1	1	1	1	1	
Pavement/Const Equip Crftmn	3E271	TSG	3	3	3	3	3	3	3	3	3	
Pavement/Const Equip Jrnymn	3E251	SSG	5	5	5	5	5	6	6	6	6	
Pavement/Const Equip Jrnymn	3E251	SRA	10	10	11	11	11	11	11	11	11	
Pavement/Const Equip Apr	3E231	A1C	13	13	13	13	14	14	14	14	14	
Structural Crftmn	3E371	MSG	1	1	1	1	1	1	1	1	1	
Structural Crftmn	3E371	TSG	2	2	2	2	2	2	2	2	3	
Structural Jrnymn	3E351	SSG	4	4	4	5	5	5	5	5	5	
Structural Jrnymn	3E351	SRA	6	6	6	6	6	6	6	6	6	
Structural Apr	3E331	A1C	7	7	7	7	7	7	8	8	8	
★Operations Jrnymn	3E651	SSG	1	1	1	1	1	1	1	1	1	
★Environmental Controls Crftmn	3E473	TSG	1	1	1	1	1	1	1	1	1	
★Environmental Controls Jrnymn	3E453	SSG	2	2	2	2	2	2	2	2	2	
★Environmental Controls Jrnymn	3E453	SRA	2	2	2	2	2	2	2	2	2	
★Environmental Controls Apr	3E433	A1C	1	1	1	1	1	1	1	1	1	
Utilities Sys Crftmn	3E471	TSG	1	1	1	1	1	1	1	1	1	
Utilities Sys Jrnymn	3E451	SSG	1	1	1	1	1	1	1	1	1	
Utilities Sys Jrnymn	3E451	SRA	1	1	1	1	1	1	1	1	1	
Utilities Sys Apr	3E431	A1C	1	1	1	1	1	1	1	1	1	
TOTAL			79	80	81	82	83	84	85	86	87	

*Reference application instructions in paragraph 4.4.

MANPOWER TABLE											
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
*Heavy Repair/44EO			4017.5 - 32782.8								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	2	2	2	2	2	2	2	2	2
CE Crftmn	3EX7X	MSG	1	1	1	2	2	2	2	2	2
Electrical Sys Crftmn	3E071	TSG	1	1	1	1	1	1	1	1	1
Electrical Sys Jrnymn	3E051	SSG	2	2	2	2	2	2	2	2	2
Electrical Sys Jrnymn	3E051	SRA	2	2	2	2	2	2	2	2	3
Electrical Sys Apr	3E031	A1C	3	3	3	3	3	3	3	3	3
HVAC and Refrig Crftmn	3E171	TSG	1	1	1	1	1	1	1	1	1
HVAC and Refrig Jrnymn	3E151	SSG	2	2	2	2	2	2	2	2	2
HVAC and Refrig Jrnymn	3E151	SRA	2	2	2	2	2	2	2	2	2
HVAC and Refrig Apr	3E131	A1C	1	1	1	1	1	1	1	1	1
Pavement/Const Equip Crftmn	3E271	MSG	2	2	2	2	2	2	2	2	2
Pavement/Const Equip Crftmn	3E271	TSG	3	3	3	3	3	3	3	3	3
Pavement/Const Equip Jrnymn	3E251	SSG	6	6	6	6	6	6	6	6	6
Pavement/Const Equip Jrnymn	3E251	SRA	11	11	11	11	11	12	12	12	12
Pavement/Const Equip Apr	3E231	A1C	14	14	14	14	15	15	15	16	16
Structural Crftmn	3E371	MSG	1	1	1	1	1	1	2	2	2
Structural Crftmn	3E371	TSG	3	3	3	3	3	3	3	3	3
Structural Jrnymn	3E351	SSG	5	5	5	5	5	5	5	5	5
Structural Jrnymn	3E351	SRA	6	7	7	7	7	7	7	7	7
Structural Apr	3E331	A1C	8	8	8	8	8	8	8	8	8
★Operations Jrnymn	3E651	SSG	1	1	1	1	1	1	1	1	1
★Environmental Controls Crftmn	3E473	TSG	1	1	1	1	1	1	1	1	1
★Environmental Controls Jrnymn	3E453	SSG	2	2	2	2	2	2	2	2	2
★Environmental Controls Jrnymn	3E453	SRA	2	2	2	2	2	2	2	2	2
★Environmental Controls Apr	3E433	A1C	1	1	2	2	2	2	2	2	2
Utilities Sys Crftmn	3E471	TSG	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SSG	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SRA	1	1	1	1	1	1	1	1	1
Utilities Sys Apr	3E431	A1C	1	1	1	1	1	1	1	1	1
TOTAL			88	89	90	91	92	93	94	95	96

*Reference application instructions in paragraph 4.4.

MANPOWER TABLE											
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
*Heavy Repair/44EO			4017.5 - 32782.8								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	2	2	2	2	2	2	2	2	2
CE Crftmn	3EX7X	MSG	2	2	2	2	2	2	2	2	2
Electrical Sys Crftmn	3E071	TSG	1	1	1	1	1	1	1	2	2
Electrical Sys Jrnymn	3E051	SSG	2	2	2	2	2	2	2	2	2
Electrical Sys Jrnymn	3E051	SRA	3	3	3	3	3	3	3	3	3
Electrical Sys Apr	3E031	A1C	3	3	3	3	4	4	4	4	4
HVAC and Refrig Crftmn	3E171	TSG	1	1	1	1	1	1	1	1	1
HVAC and Refrig Jrnymn	3E151	SSG	2	2	2	2	2	2	2	2	2
HVAC and Refrig Jrnymn	3E151	SRA	2	2	2	2	2	2	2	2	2
HVAC and Refrig Apr	3E131	A1C	1	1	1	1	1	1	1	1	1
Pavement/Const Equip Crftmn	3E271	MSG	2	2	2	2	2	2	2	2	2
Pavement/Const Equip Crftmn	3E271	TSG	3	3	3	3	3	3	4	4	4
Pavement/Const Equip Jrnymn	3E251	SSG	6	6	7	7	7	7	7	7	7
Pavement/Const Equip Jrnymn	3E251	SRA	12	12	12	12	12	13	13	13	13
Pavement/Const Equip Apr	3E231	A1C	16	16	16	16	16	16	16	16	16
Structural Crftmn	3E371	MSG	2	2	2	2	2	2	2	2	2
Structural Crftmn	3E371	TSG	3	3	3	3	3	3	3	3	3
Structural Jrnymn	3E351	SSG	5	5	5	5	5	5	5	5	6
Structural Jrnymn	3E351	SRA	7	7	7	8	8	8	8	8	8
Structural Apr	3E331	A1C	9	9	9	9	9	9	9	9	9
★Operations Jrnymn	3E651	SSG	1	1	1	1	1	1	1	1	1
★Environmental Controls Crftmn	3E473	TSG	1	1	1	1	1	1	1	1	1
★Environmental Controls Jrnymn	3E453	SSG	2	2	2	2	2	2	2	2	2
★Environmental Controls Jrnymn	3E453	SRA	2	3	3	3	3	3	3	3	3
★Environmental Controls Apr	3E433	A1C	2	2	2	2	2	2	2	2	2
Utilities Sys Crftmn	3E471	TSG	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SSG	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SRA	1	1	1	1	1	1	1	1	1
Utilities Sys Apr	3E431	A1C	1	1	1	1	1	1	1	1	1
TOTAL			97	98	99	100	101	102	103	104	105

*Reference application instructions in paragraph 4.4.

MANPOWER TABLE											
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
*Heavy Repair/44EO			4017.5 - 32782.8								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	2	2	2	2	2	2	2	2	2
CE Crftmn	3EX7X	MSG	2	2	2	2	2	2	2	2	2
Electrical Sys Crftmn	3E071	TSG	2	2	2	2	2	2	2	2	2
Electrical Sys Jrnymn	3E051	SSG	2	2	2	2	2	2	2	2	2
Electrical Sys Jrnymn	3E051	SRA	3	3	3	3	3	3	3	3	3
Electrical Sys Apr	3E031	A1C	4	4	4	4	4	4	5	5	5
HVAC and Refrig Crftmn	3E171	TSG	1	1	1	1	1	1	1	1	1
HVAC and Refrig Jrnymn	3E151	SSG	2	2	2	2	2	2	2	2	2
HVAC and Refrig Jrnymn	3E151	SRA	2	2	2	2	2	2	2	2	2
HVAC and Refrig Apr	3E131	A1C	1	1	1	1	1	1	1	1	1
Pavement/Const Equip Crftmn	3E271	MSG	2	2	2	2	2	2	2	2	2
Pavement/Const Equip Crftmn	3E271	TSG	4	4	4	4	4	4	4	4	4
Pavement/Const Equip Jrnymn	3E251	SSG	7	7	7	7	7	7	7	7	7
Pavement/Const Equip Jrnymn	3E251	SRA	13	13	13	13	13	14	14	14	14
Pavement/Const Equip Apr	3E231	A1C	17	17	17	17	18	18	18	18	18
Structural Crftmn	3E371	MSG	2	2	2	2	2	2	2	2	2
Structural Crftmn	3E371	TSG	3	3	3	3	3	3	3	3	3
Structural Jrnymn	3E351	SSG	6	6	6	6	6	6	6	6	7
Structural Jrnymn	3E351	SRA	8	8	8	8	8	8	8	9	9
Structural Apr	3E331	A1C	9	9	9	10	10	10	10	10	10
★Operations Crftmn	3E671	TSG		1	1	1	1	1	1	1	1
★Operations Jrnymn	3E651	SSG	1	1	1	1	1	1	1	1	1
★Environmental Controls Crftmn	3E473	TSG	1	1	1	1	1	1	1	1	1
★Environmental Controls Jrnymn	3E453	SSG	2	2	2	2	2	2	2	2	2
★Environmental Controls Jrnymn	3E453	SRA	3	3	3	3	3	3	3	3	3
★Environmental Controls Apr	3E433	A1C	2	2	2	2	2	2	2	2	2
Utilities Sys Crftmn	3E471	TSG	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SSG	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SRA	1	2	2	2	2	2	2	2	2
Utilities Sys Apr	3E431	A1C	1	1	1	1	1	1	1	1	1
TOTAL			106	107	108	109	110	111	112	113	114

*Reference application instructions in paragraph 4.4.

MANPOWER TABLE											
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
*Heavy Repair/44EO			4017.5 - 32782.8								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	2	2	2	2	2	2	2	2	2
CE Crftmn	3EX7X	MSG	2	2	2	2	2	2	2	2	2
Electrical Sys Crftmn	3E071	TSG	2	2	2	2	2	2	2	2	2
Electrical Sys Jrnymn	3E051	SSG	2	2	2	2	2	2	2	2	2
Electrical Sys Jrnymn	3E051	SRA	3	3	3	3	3	3	3	3	3
Electrical Sys Apr	3E031	A1C	5	5	5	5	5	5	5	5	5
HVAC and Refrig Crftmn	3E171	TSG	1	1	1	1	1	1	1	1	1
HVAC and Refrig Jrnymn	3E151	SSG	2	2	2	2	2	2	2	2	2
HVAC and Refrig Jrnymn	3E151	SRA	2	2	2	2	2	2	2	2	2
HVAC and Refrig Apr	3E131	A1C	2	2	2	2	2	2	3	3	3
Pavement/Const Equip Crftmn	3E271	MSG	2	2	2	2	2	2	2	2	2
Pavement/Const Equip Crftmn	3E271	TSG	4	4	4	4	4	4	4	4	4
Pavement/Const Equip Jrnymn	3E251	SSG	7	7	7	7	7	7	7	7	7
Pavement/Const Equip Jrnymn	3E251	SRA	14	14	14	14	15	15	15	15	15
Pavement/Const Equip Apr	3E231	A1C	18	18	18	18	18	18	18	18	19
Structural Crftmn	3E371	MSG	2	2	2	2	2	2	2	2	2
Structural Crftmn	3E371	TSG	3	4	4	4	4	4	4	4	4
Structural Jrnymn	3E351	SSG	7	7	7	7	7	7	7	8	8
Structural Jrnymn	3E351	SRA	9	9	9	9	9	10	10	10	10
Structural Apr	3E331	A1C	10	10	10	11	11	11	11	11	11
★Operations Crftmn	3E671	TSG	1	1	1	1	1	1	1	1	1
★Operations Jrnymn	3E651	SSG	1	1	1	1	1	1	1	1	1
★Environmental Controls Crftmn	3E473	TSG	1	1	1	1	1	1	1	1	1
★Environmental Controls Jrnymn	3E453	SSG	2	2	2	2	2	2	2	2	2
★Environmental Controls Jrnymn	3E453	SRA	3	3	3	3	3	3	3	3	3
★Environmental Controls Apr	3E433	A1C	2	2	3	3	3	3	3	3	3
Utilities Sys Crftmn	3E471	TSG	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SSG	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SRA	2	2	2	2	2	2	2	2	2
Utilities Sys Apr	3E431	A1C	1	1	1	1	1	1	1	1	1
TOTAL			115	116	117	118	119	120	121	122	123

*Reference application instructions in paragraph 4.4.

MANPOWER TABLE											
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
*Heavy Repair/44EO			4017.5 - 32782.8								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	2	2	2	2	2	2	2	2	2
CE Crftmn	3EX7X	MSG	3	3	3	3	3	3	3	3	3
Electrical Sys Crftmn	3E071	TSG	2	2	2	2	2	2	2	2	2
Electrical Sys Jrnymn	3E051	SSG	2	2	2	2	2	2	2	2	2
Electrical Sys Jrnymn	3E051	SRA	3	3	3	3	3	3	3	3	3
Electrical Sys Apr	3E031	A1C	5	5	5	5	5	5	5	5	5
HVAC and Refrig Crftmn	3E171	TSG	1	1	1	1	1	1	1	1	1
HVAC and Refrig Jrnymn	3E151	SSG	2	2	2	2	2	2	2	2	2
HVAC and Refrig Jrnymn	3E151	SRA	2	2	2	2	3	3	3	3	3
HVAC and Refrig Apr	3E131	A1C	3	3	3	3	3	3	3	3	3
Pavement/Const Equip Crftmn	3E271	MSG	2	2	2	2	2	2	2	2	2
Pavement/Const Equip Crftmn	3E271	TSG	4	4	4	4	4	4	4	4	4
Pavement/Const Equip Jrnymn	3E251	SSG	7	8	8	8	8	8	8	8	8
Pavement/Const Equip Jrnymn	3E251	SRA	15	15	15	15	15	15	15	15	16
Pavement/Const Equip Apr	3E231	A1C	19	19	19	19	19	19	20	20	20
Structural Crftmn	3E371	MSG	2	2	2	2	2	2	2	2	2
Structural Crftmn	3E371	TSG	4	4	5	5	5	5	5	5	5
Structural Jrnymn	3E351	SSG	8	8	8	8	8	8	8	8	8
Structural Jrnymn	3E351	SRA	10	10	10	10	10	10	10	11	11
Structural Apr	3E331	A1C	11	11	11	11	11	12	12	12	12
★Operations Crftmn	3E671	MSG			1	1	1	1	1	1	1
★Operations Crftmn	3E671	TSG	1	1	1						
★Operations Jrnymn	3E651	SSG	1	1	1	2	2	2	2	2	2
★Environmental Controls Crftmn	3E473	TSG	1	1	1	1	1	1	1	1	1
★Environmental Controls Jrnymn	3E453	SSG	2	2	2	2	2	2	2	2	2
★Environmental Controls Jrnymn	3E453	SRA	3	3	3	3	3	3	3	3	3
★Environmental Controls Apr	3E433	A1C	3	3	3	3	3	3	3	3	3
Utilities Sys Crftmn	3E471	TSG	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SSG	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SRA	2	2	2	2	2	2	2	2	2
Utilities Sys Apr	3E431	A1C	1	1	1	1	1	1	1	1	1
TOTAL			124	125	126	127	128	129	130	131	132

*Reference application instructions in paragraph 4.4.

MANPOWER TABLE

WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE									
*Heavy Repair/44EO			4017.5 - 32782.8									
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	2	2	2	2	2	2	2	2	2	2
CE Crftmn	3EX7X	MSG	3	3	3	3	3	3	3	3	3	3
Electrical Sys Crftmn	3E071	TSG	2	2	2	2	2	2	2	2	2	2
Electrical Sys Jrnymn	3E051	SSG	2	2	3	3	3	3	3	3	3	3
Electrical Sys Jrnymn	3E051	SRA	3	3	3	3	3	3	3	3	3	3
Electrical Sys Apr	3E031	A1C	5	5	5	5	5	5	5	5	5	5
HVAC and Refrig Crftmn	3E171	TSG	1	1	1	1	1	1	1	1	1	1
HVAC and Refrig Jrnymn	3E151	SSG	2	2	2	2	2	2	2	3	3	3
HVAC and Refrig Jrnymn	3E151	SRA	3	3	3	3	3	3	3	3	3	3
HVAC and Refrig Apr	3E131	A1C	3	3	3	3	3	3	3	3	3	3
Pavement/Const Equip Crftmn	3E271	MSG	2	2	2	2	2	2	2	2	2	2
Pavement/Const Equip Crftmn	3E271	TSG	5	5	5	5	5	5	5	5	5	5
Pavement/Const Equip Jrnymn	3E251	SSG	8	8	8	9	9	9	9	9	9	9
Pavement/Const Equip Jrnymn	3E251	SRA	16	16	16	16	16	16	16	16	16	16
Pavement/Const Equip Apr	3E231	A1C	20	20	20	20	20	20	20	20	20	20
Structural Crftmn	3E371	MSG	2	2	2	2	2	2	2	2	2	2
Structural Crftmn	3E371	TSG	5	5	5	5	5	5	5	5	6	6
Structural Jrnymn	3E351	SSG	8	8	8	8	8	9	9	9	9	9
Structural Jrnymn	3E351	SRA	11	11	11	11	11	11	11	11	11	11
Structural Apr	3E331	A1C	12	12	12	12	12	12	12	12	12	13
★Operations Crftmn	3E671	MSG	1	1	1	1	1	1	1	1	1	1
★Operations Crftmn	3E671	TSG		1	1	1	1	1	1	1	1	1
★Operations Jrnymn	3E651	SSG	2	2	2	2	2	2	2	2	2	2
★Environmental Controls Crftmn	3E473	TSG	1	1	1	1	1	1	1	1	1	1
★Environmental Controls Jrnymn	3E453	SSG	2	2	2	2	2	2	2	2	2	2
★Environmental Controls Jrnymn	3E453	SRA	3	3	3	3	3	3	3	3	3	3
★Environmental Controls Apr	3E433	A1C	3	3	3	3	3	3	3	3	3	3
Utilities Sys Crftmn	3E471	TSG	1	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SSG	1	1	1	1	2	2	2	2	2	2
Utilities Sys Jrnymn	3E451	SRA	2	2	2	2	2	2	2	2	2	2
Utilities Sys Apr	3E431	A1C	1	1	1	1	1	1	1	1	1	1
TOTAL			133	134	135	136	137	138	139	140	141	

*Reference application instructions in paragraph 4.4.

MANPOWER TABLE											
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
*Heavy Repair/44EO			4017.5 - 32782.8								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	2	2	2	2	2	2	2	2	2
CE Crftmn	3EX7X	MSG	3	3	3	3	3	3	4	4	4
Electrical Sys Crftmn	3E071	TSG	2	2	2	2	2	2	2	2	2
Electrical Sys Jrnymn	3E051	SSG	3	3	3	3	3	3	3	3	3
Electrical Sys Jrnymn	3E051	SRA	3	3	3	3	4	4	4	4	4
Electrical Sys Apr	3E031	A1C	5	5	5	5	5	5	5	5	5
HVAC and Refrig Crftmn	3E171	TSG	1	1	1	1	1	1	1	1	1
HVAC and Refrig Jrnymn	3E151	SSG	3	3	3	3	3	3	3	3	3
HVAC and Refrig Jrnymn	3E151	SRA	3	3	3	3	3	3	3	3	3
HVAC and Refrig Apr	3E131	A1C	3	3	4	4	4	4	4	4	4
Pavement/Const Equip Crftmn	3E271	MSG	2	2	2	2	2	2	2	2	2
Pavement/Const Equip Crftmn	3E271	TSG	5	5	5	6	6	6	6	6	6
Pavement/Const Equip Jrnymn	3E251	SSG	9	10	10	10	10	10	10	10	10
Pavement/Const Equip Jrnymn	3E251	SRA	16	16	16	16	16	16	16	16	16
Pavement/Const Equip Apr	3E231	A1C	20	20	20	20	20	20	20	20	20
Structural Crftmn	3E371	MSG	2	2	2	2	2	2	2	2	2
Structural Crftmn	3E371	TSG	6	6	6	6	6	6	6	6	6
Structural Jrnymn	3E351	SSG	9	9	9	9	9	9	9	9	9
Structural Jrnymn	3E351	SRA	11	11	11	11	11	11	11	12	12
Structural Apr	3E331	A1C	13	13	13	13	13	14	14	14	14
★Operations Crftmn	3E671	MSG	1	1	1	1	1	1	1	1	1
★Operations Crftmn	3E671	TSG	1	1	1	1	1	1	1	1	1
★Operations Jrnymn	3E651	SSG	2	2	2	2	2	2	2	2	2
★Environmental Controls Crftmn	3E473	TSG	1	1	1	1	1	1	1	1	1
★Environmental Controls Jrnymn	3E453	SSG	2	2	2	2	2	2	2	2	2
★Environmental Controls Jrnymn	3E453	SRA	3	3	3	3	3	3	3	3	3
★Environmental Controls Apr	3E433	A1C	3	3	3	3	3	3	3	3	3
Utilities Sys Crftmn	3E471	TSG	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SSG	2	2	2	2	2	2	2	2	2
Utilities Sys Jrnymn	3E451	SRA	2	2	2	2	2	2	2	2	3
Utilities Sys Apr	3E431	A1C	2	2	2	2	2	2	2	2	2
TOTAL			142	143	144	145	146	147	148	149	150

*Reference application instructions in paragraph 4.4.

MANPOWER TABLE

WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE									
*Heavy Repair 44EO			4017.5 - 32782.8									
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
			1	1	1	1	1	1	1	1	1	1
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	2	2	2	2	2	2	2	2	2	2
CE Crftmn	3EX7X	MSG	4	4	4	4	4	4	4	4	4	4
Electrical Sys Crftmn	3E071	TSG	2	2	2	2	2	2	2	2	2	2
Electrical Sys Jrnymn	3E051	SSG	3	3	3	3	3	3	3	3	3	3
Electrical Sys Jrnymn	3E051	SRA	4	4	4	5	5	5	5	5	5	5
Electrical Sys Apr	3E031	A1C	5	5	5	5	6	6	6	6	6	6
HVAC and Refrig Crftmn	3E171	TSG	2	2	2	2	2	2	2	2	2	2
HVAC and Refrig Jrnymn	3E151	SSG	3	3	3	3	3	3	3	3	3	3
HVAC and Refrig Jrnymn	3E151	SRA	3	3	3	3	3	3	3	3	3	3
HVAC and Refrig Apr	3E131	A1C	4	4	4	4	4	4	4	4	4	4
Pavement/Const Equip Crftmn	3E271	MSG	2	2	2	2	2	2	2	2	2	2
Pavement/Const Equip Crftmn	3E271	TSG	6	7	7	7	7	7	7	7	7	7
Pavement/Const Equip Jrnymn	3E251	SSG	10	10	10	10	10	11	11	11	11	11
Pavement/Const Equip Jrnymn	3E251	SRA	16	16	16	16	16	16	16	16	16	16
Pavement/Const Equip Apr	3E231	A1C	20	20	20	20	20	20	20	20	20	20
Structural Crftmn	3E371	MSG	2	2	2	2	2	2	2	2	2	2
Structural Crftmn	3E371	TSG	6	6	6	6	6	6	6	7	7	7
Structural Jrnymn	3E351	SSG	9	9	10	10	10	10	10	10	10	10
Structural Jrnymn	3E351	SRA	12	12	12	12	12	12	12	12	12	12
Structural Apr	3E331	A1C	14	14	14	14	14	14	14	14	14	15
★Operations Crftmn	3E671	MSG	1	1	1	1	1	1	1	1	1	1
★Operations Crftmn	3E671	TSG	1	1	1	1	1	1	1	1	1	1
★Operations Jrnymn	3E651	SSG	2	2	2	2	2	2	2	2	2	2
★Operations Jrnymn	3E651	SRA									1	1
★Environmental Controls Crftmn	3E473	TSG	1	1	1	1	1	1	1	1	1	1
★Environmental Controls Jrnymn	3E453	SSG	2	2	2	2	2	2	2	2	2	2
★Environmental Controls Jrnymn	3E453	SRA	3	3	3	3	3	3	3	3	3	3
★Environmental Controls Apr	3E433	A1C	3	3	3	3	3	3	3	3	3	3
Utilities Sys Crftmn	3E471	TSG	1	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SSG	2	2	2	2	2	2	2	2	2	2
Utilities Sys Jrnymn	3E451	SRA	3	3	3	3	3	3	3	3	3	3
Utilities Sys Apr	3E431	A1C	2	2	2	2	2	2	2	2	2	2
TOTAL			151	152	153	154	155	156	157	158	159	

*Reference application instructions in paragraph 4.4.

MANPOWER TABLE											
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
*Heavy Repair/44EO			4017.5 - 32782.8								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	2	2	2	2	2	2	2	2	2
CE Crftmn	3EX7X	MSG	4	4	4	4	4	4	4	4	4
Electrical Sys Crftmn	3E071	TSG	2	2	2	2	2	2	2	2	2
Electrical Sys Jrnymn	3E051	SSG	3	3	3	3	3	3	3	3	4
Electrical Sys Jrnymn	3E051	SRA	5	5	5	5	5	5	5	5	5
Electrical Sys Apr	3E031	A1C	6	6	6	6	6	6	6	6	6
HVAC and Refrig Crftmn	3E171	TSG	2	2	2	2	2	2	2	2	2
HVAC and Refrig Jrnymn	3E151	SSG	3	3	3	3	3	3	3	3	3
HVAC and Refrig Jrnymn	3E151	SRA	3	4	4	4	4	4	4	4	4
HVAC and Refrig Apr	3E131	A1C	4	4	4	4	4	4	4	4	5
Pavement/Const Equip Crftmn	3E271	MSG	2	2	2	2	2	2	2	2	2
Pavement/Const Equip Crftmn	3E271	TSG	7	7	7	7	7	7	7	7	7
Pavement/Const Equip Jrnymn	3E251	SSG	11	11	11	11	11	12	12	12	12
Pavement/Const Equip Jrnymn	3E251	SRA	16	16	17	17	17	17	17	17	17
Pavement/Const Equip Apr	3E231	A1C	20	20	20	20	20	20	20	20	20
Structural Crftmn	3E371	MSG	2	2	2	2	2	2	2	2	2
Structural Crftmn	3E371	TSG	7	7	7	7	7	7	7	7	7
Structural Jrnymn	3E351	SSG	10	10	10	10	10	10	11	11	11
Structural Jrnymn	3E351	SRA	12	12	12	13	13	13	13	13	13
Structural Apr	3E331	A1C	15	15	15	15	15	15	15	15	15
★Operations Crftmn	3E671	MSG	1	1	1	1	1	1	1	1	1
★Operations Crftmn	3E671	TSG	1	1	1	1	1	1	1	1	1
★Operations Jrnymn	3E651	SSG	2	2	2	2	2	2	2	2	2
★Operations Jrnymn	3E651	SRA	1	1	1	1	1	1	1	1	1
★Environmental Controls Crftmn	3E473	TSG	1	1	1	1	1	1	1	1	1
★Environmental Controls Jrnymn	3E453	SSG	2	2	2	2	2	2	2	2	2
★Environmental Controls Jrnymn	3E453	SRA	3	3	3	3	3	3	3	3	3
★Environmental Controls Apr	3E433	A1C	3	3	3	3	3	3	3	3	3
Utilities Sys Crftmn	3E471	TSG	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SSG	3	3	3	3	3	3	3	3	3
Utilities Sys Jrnymn	3E451	SRA	3	3	3	3	3	3	3	3	3
Utilities Sys Apr	3E431	A1C	2	2	2	2	3	3	3	3	3
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TOTAL			160	161	162	163	164	165	166	167	168

*Reference application instructions in paragraph 4.4.

MANPOWER TABLE

WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE									
*Heavy Repair/44EO			4017.5 - 32782.8									
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
			1	1	1	1	1	1	1	1	1	1
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	3	3	3	3	3	3	3	3	3	3
CE Crftmn	3EX7X	MSG	4	4	4	4	4	4	4	4	4	4
Electrical Sys Crftmn	3E071	TSG	2	2	2	2	2	2	2	2	2	2
Electrical Sys Jrnymn	3E051	SSG	4	4	4	4	4	4	4	4	4	4
Electrical Sys Jrnymn	3E051	SRA	5	5	5	5	5	5	5	5	5	5
Electrical Sys Apr	3E031	A1C	6	6	6	6	6	6	6	6	6	6
HVAC and Refrig Crftmn	3E171	TSG	2	3	3	3	3	3	3	3	3	3
HVAC and Refrig Jrnymn	3E151	SSG	3	3	3	3	3	3	3	3	3	3
HVAC and Refrig Jrnymn	3E151	SRA	4	4	4	4	4	4	4	4	4	4
HVAC and Refrig Apr	3E131	A1C	5	5	5	5	5	5	5	5	5	5
Pavement/Const Equip Crftmn	3E271	MSG	2	2	2	2	2	2	2	3	3	3
Pavement/Const Equip Crftmn	3E271	TSG	7	7	8	8	8	8	8	8	8	8
Pavement/Const Equip Jrnymn	3E251	SSG	12	12	12	12	12	12	12	12	12	12
Pavement/Const Equip Jrnymn	3E251	SRA	17	17	17	17	17	17	17	17	17	17
Pavement/Const Equip Apr	3E231	A1C	20	20	20	20	20	20	20	20	21	21
Structural Crftmn	3E371	MSG	2	2	2	2	2	2	2	2	2	2
Structural Crftmn	3E371	TSG	7	7	7	7	7	7	7	7	7	7
Structural Jrnymn	3E351	SSG	11	11	11	12	12	12	12	12	12	12
Structural Jrnymn	3E351	SRA	13	13	13	13	13	13	13	13	13	14
Structural Apr	3E331	A1C	15	15	15	15	15	15	16	16	16	16
★Operations Crftmn	3E671	MSG	1	1	1	1	1	1	1	1	1	1
★Operations Crftmn	3E671	TSG	1	1	1	1	1	1	1	1	1	1
★Operations Jrnymn	3E651	SSG	2	2	2	2	2	2	2	2	2	2
★Operations Jrnymn	3E651	SRA	1	1	1	1	1	1	1	1	1	1
★Environmental Controls Crftmn	3E473	TSG	1	1	1	1	1	1	1	1	1	1
★Environmental Controls Jrnymn	3E453	SSG	2	2	2	2	2	2	2	2	2	2
★Environmental Controls Jrnymn	3E453	SRA	3	3	3	3	3	3	3	3	3	3
★Environmental Controls Apr	3E433	A1C	3	3	3	3	3	3	3	3	3	3
Utilities Sys Crftmn	3E471	TSG	1	1	1	1	1	1	1	1	1	1
Utilities Sys Jrnymn	3E451	SSG	3	3	3	3	3	3	3	3	3	3
Utilities Sys Jrnymn	3E451	SRA	3	3	3	3	3	3	3	3	3	3
Utilities Sys Apr	3E431	A1C	3	3	3	3	4	4	4	4	4	4
TOTAL			169	170	171	172	173	174	175	176	177	

*Reference application instructions in paragraph 4.4.

MANPOWER TABLE											
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
*Heavy Repair/44EO			4017.5 - 32782.8								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	3	3	3	3	3	3	3	3	3
CE Crftmn	3EX7X	MSG	4	4	4	4	4	4	4	4	4
Electrical Sys Crftmn	3E071	TSG	2	2	2	2	2	2	2	2	2
Electrical Sys Jrnymn	3E051	SSG	4	4	4	5	5	5	5	5	5
Electrical Sys Jrnymn	3E051	SRA	5	5	5	5	5	5	5	5	5
Electrical Sys Apr	3E031	A1C	6	6	6	6	6	6	6	7	7
HVAC and Refrig Crftmn	3E171	TSG	3	3	3	3	3	3	3	3	3
HVAC and Refrig Jrnymn	3E151	SSG	4	4	4	4	4	4	4	4	4
HVAC and Refrig Jrnymn	3E151	SRA	4	4	4	4	4	4	4	4	4
HVAC and Refrig Apr	3E131	A1C	5	5	5	5	5	6	6	6	6
Pavement/Const Equip Crftmn	3E271	MSG	3	3	3	3	3	3	3	3	3
Pavement/Const Equip Crftmn	3E271	TSG	8	8	8	8	9	9	9	9	9
Pavement/Const Equip Jrnymn	3E251	SSG	12	12	12	12	12	12	12	12	12
Pavement/Const Equip Jrnymn	3E251	SRA	17	17	17	17	17	17	17	17	17
Pavement/Const Equip Apr	3E231	A1C	21	22	22	22	22	22	22	22	22
Structural Crftmn	3E371	MSG	2	2	2	2	2	2	2	2	2
Structural Crftmn	3E371	TSG	7	7	7	7	7	7	7	7	8
Structural Jrnymn	3E351	SSG	12	12	12	12	12	12	13	13	13
Structural Jrnymn	3E351	SRA	14	14	14	14	14	14	14	14	14
Structural Apr	3E331	A1C	16	16	16	16	16	16	16	16	16
★Operations Crftmn	3E671	MSG	1	1	1	1	1	1	1	1	1
★Operations Crftmn	3E671	TSG	1	1	1	1	1	1	1	1	1
★Operations Jrnymn	3E651	SSG	2	2	2	2	2	2	2	2	2
★Operations Jrnymn	3E651	SRA	1	1	1	1	1	1	1	1	1
★Environmental Controls Crftmn	3E473	TSG	1	1	1	1	1	1	1	1	1
★Environmental Controls Jrnymn	3E453	SSG	2	2	2	2	2	2	2	2	2
★Environmental Controls Jrnymn	3E453	SRA	3	3	3	3	3	3	3	3	3
★Environmental Controls Apr	3E433	A1C	3	3	3	3	3	3	3	3	3
Utilities Sys Crftmn	3E471	TSG	1	1	2	2	2	2	2	2	2
Utilities Sys Jrnymn	3E451	SSG	3	3	3	3	3	3	3	3	3
Utilities Sys Jrnymn	3E451	SRA	3	3	3	3	3	3	3	3	3
Utilities Sys Apr	3E431	A1C	4	4	4	4	4	4	4	4	4
TOTAL			178	179	180	181	182	183	184	185	186

*Reference application instructions in paragraph 4.4.

MANPOWER TABLE

WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE									
*Heavy Repair/44EO			4017.5 - 32782.8									
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
			1	1	1	1	1	1	1	1	1	1
CE Mgr	3E000	CMS	1	1	1	1	1	1	1	1	1	1
CE Supt	3EX9X	SMS	3	3	3	3	3	3	3	3	3	3
CE Crftmn	3EX7X	MSG	4	4	4	4	4	4	4	4	4	4
Electrical Sys Crftmn	3E071	TSG	2	2	2	2	2	2	2	2	2	2
Electrical Sys Jrnymn	3E051	SSG	5	5	5	5	5	5	5	5	5	5
Electrical Sys Jrnymn	3E051	SRA	5	5	5	5	5	5	5	5	6	6
Electrical Sys Apr	3E031	A1C	7	7	7	7	7	7	7	7	7	7
HVAC and Refrig Crftmn	3E171	TSG	3	3	3	3	3	3	3	3	3	3
HVAC and Refrig Jrnymn	3E151	SSG	4	4	4	4	4	4	4	4	4	4
HVAC and Refrig Jrnymn	3E151	SRA	4	4	4	4	5	5	5	5	5	5
HVAC and Refrig Apr	3E131	A1C	6	6	6	6	6	6	6	6	6	6
Pavement/Const Equip Crftmn	3E271	MSG	3	3	3	3	3	3	3	3	3	3
Pavement/Const Equip Crftmn	3E271	TSG	9	9	9	9	9	9	9	9	9	9
Pavement/Const Equip Jrnymn	3E251	SSG	12	12	12	13	13	13	13	13	13	13
Pavement/Const Equip Jrnymn	3E251	SRA	17	17	17	17	17	18	18	18	18	18
Pavement/Const Equip Apr	3E231	A1C	22	22	22	22	22	22	22	22	22	22
Structural Crftmn	3E371	MSG	2	2	2	2	2	2	2	2	2	2
Structural Crftmn	3E371	TSG	8	9	9	9	9	9	9	9	9	9
Structural Jrnymn	3E351	SSG	13	13	13	13	13	13	13	13	13	13
Structural Jrnymn	3E351	SRA	14	14	14	14	14	14	14	14	14	15
Structural Apr	3E331	A1C	16	16	16	16	16	16	16	17	17	17
★Operations Crftmn	3E671	MSG	1	1	1	1	1	1	1	1	1	1
★Operations Crftmn	3E671	TSG	1	1	1	1	1	1	1	1	1	1
★Operations Jrnymn	3E651	SSG	2	2	2	2	2	2	2	2	2	2
★Operations Jrnymn	3E651	SRA	1	1	1	1	1	1	1	1	1	1
★Environmental Controls Crftmn	3E473	TSG	1	1	1	1	1	1	1	1	1	1
★Environmental Controls Jrnymn	3E453	SSG	2	2	3	3	3	3	3	3	3	3
★Environmental Controls Jrnymn	3E453	SRA	3	3	3	3	3	3	3	3	3	3
★Environmental Controls Apr	3E433	A1C	3	3	3	3	3	3	3	3	3	3
Utilities Sys Crftmn	3E471	TSG	2	2	2	2	2	2	2	2	2	2
Utilities Sys Jrnymn	3E451	SSG	3	3	3	3	3	3	3	3	3	3
Utilities Sys Jrnymn	3E451	SRA	4	4	4	4	4	4	4	4	4	4
Utilities Sys Apr	3E431	A1C	4	4	4	4	4	4	4	4	4	4
TOTAL			187	188	189	190	191	192	193	194	195	

*Reference application instructions in paragraph 4.4.

Attachment 4**VARIANCES****OPERATIONS FLIGHT****PART I Approved Variances**

VARIANCE NUMBER	TITLE
A4.1.	Manned Prime Electrical Power Generating Plants.
A4.2.	Manned Standby Power Plants.
A4.3.	Manned Heating Plants.
A4.4.	Manned Wastewater Plants.
A4.5.	Manned Water Treatment Plants.
A4.6.	Central Industrial Compressed Air Plant and Distribution System.
A4.7.	Coal and Ash Handling.
A4.8.	Snow and Ice Removal Operations.
A4.9.	Refuse Collection.
A4.10.	Military Family Housing Maintenance.
A4.11.	In-House Grounds Maintenance.
A4.12.	Bomb and Gunnery Range Support.
A4.13.	Aircraft Arresting Barrier Maintenance Other Than MA-1A or BAK-12.
A4.14.	Energy Management Control System (EMCS) and Supervisory Control and Data Acquisition (SCADA) Systems.
A4.15.	No Government Operated CE Store (GOCESS) to Manage.
A4.16.	Support Strategic Missile Facilities.
A4.17.	Consolidated Aircraft Support System (CASS).
A4.18.	Domestic and Commercial Appliance Maintenance for Overseas and Remote Locations.
A4.19.	Back-up Generator Maintenance.
A4.20.	Manned Chilled Water Plants.
A4.21.	Contracted Facility Painting.
A4.22.	Leveling.
A4.23.	Coastal Switch.
A4.24.	No Manned Heat Plant Switch.
A4.25.	Non-Potable (Secondary) Water Distribution Systems Maintenance.
A4.26.	Maintenance of Special Academy Facilities.
A4.27.	Wilford Hall Medical Center.
A4.28.	Coal Stoking of MFH and Base Boilers.
A4.29.	MacDill AFB Non-Standard Operation.
A4.30.	Breathing-Quality Air Systems Plants.
A4.31.	Depot/Support Technology Center.
A4.32.	HAZMAT Emergency Clean-Up Teams.
A4.33.	Dry Lake Bed Runway Maintenance.

PART 2 Disallowed Variances. The following variances were considered during the development of this AFMS, but, due to various reasons, were disallowed by the AF/CE, AF/PE, MAJCOM Integration Review Teams, or the Objective Flight Study Team. Therefore, they did not receive a special variance manpower allocation. Reasons for the decision were: resource limitations, work considered to be in the core or other variances, work normally contracted, work not the responsibility of the Base CE, and work considered to be at a standard higher than an acceptable level. Related work processes are not prohibited, but when required, must be accomplished within available resources.

1. Survivable Collective Protection System (SCPS) Maintenance.
2. Corrosion Control Protection in Severe Salt Air Environment.
3. Horizontal Fire Support.
4. Asbestos Handling Teams.
5. Motor Rewind.
6. Cable TV and Master Antennas.
7. Pavement and Equipment Support For R&D.
8. Utility Metering Program.
9. Support of EPA Mandates/Regulations and Training and/or Chemical Emergency Response Teams.
10. Maintenance of Hoists, Chain Falls, and Hangar Doors.
11. Dry Lake Bed Runway Maintenance.
12. Grease Traps and Sewer Cleaning.
13. Storm Retention Centers and Septic Tanks.
14. Beach Maintenance/Litter Patrol.
15. Riverfront Maintenance.
16. Headbolt Heater Outlet Maintenance.
17. Deployment and Exercise Participation (in excess of Prime BEEF (Base Engineer Emergency Force) annual requirement.)
18. Construction of Ice Bridge.
19. Maintenance and Repair of Demineralizers.
20. Sanitary Landfill Operations.
21. Railroad Maintenance.
22. Geographically Separated Units (GSU) Travel.
23. Maintenance of Utilidors.
24. Hydrant Fueling Systems Maintenance.
25. Launch Support Facilities Maintenance.
26. War Readiness Materials (WRM) Maintenance.
27. 25% of In-House Grounds Maintenance.
28. Operation of EMCS and SCADA Systems in Excess of Five Authorizations.
29. Maintenance of Back-Up Generators (between 50 and 100).
30. 20% of Coal Stoking of MFH and Base Boilers.
31. Logistics Support For Other CE Variances.
32. Maintenance of GOQ.
33. In-House Painting.
34. Hospital Maintenance.

35. Nuclear Weapons Storage Area Maintenance.
36. No Airfield To Support.
37. High-Tech Facilities Maintenance.
38. Maintenance of UPS and Alternate Power Systems.
39. Large Primary Distribution Systems Maintenance.
40. Safe and File Cabinet Repair and Maintenance.
41. Maintenance of Historical Facilities.
42. Incinerator and Burn Systems Maintenance.
43. Hazardous Waste Storage and Operations.
44. Masonry Fence Repair.
45. EMP Protected Facilities Maintenance.
46. Aging Facilities.
47. Water Distribution System Maintenance.
48. Maintenance of Historic Facilities.
49. Commissary Equipment Maintenance.
50. Natural Resources Maintenance (ref. Environmental Flight).
51. Glider Strip Maintenance.
52. Grave Preparation.
53. Gravel Pit Operation.
54. Reservoir Maintenance.
55. Area Roping.
56. Natural Gas Coordinator.
57. MAJCOM-/Base-Combined Duties.
58. Ceremonial Support for AFDW.
59. Helipad Maintenance.
60. Adverse Weather Preparation/Cleanup/Repair.
61. DIA Support.
62. Extra Work for HQ Facilities and General Officers and SES Work Areas.
63. Outside Plant Operations.
64. Maintenance of Large Fire Alarm and Detection Systems.
65. Maintenance of Industrial and Lab Facilities.
66. Maintenance of Avionics Aircraft Cooling Facilities.
67. Extreme Cold Climate.
68. Underground Hardened Facilities Maintenance.
69. Heating Distribution Lines Maintenance.
70. Maintenance on Evaporative Coolers.
71. Multicraft Work Orders Over 250 Man-hours and Three Skills.
72. Support For Second Runway.
73. Airfield Marking.
74. Repair Roofs.
75. EMCS Controls Maintenance.
76. Fuel Transport Barges.
77. Student Training Complex Maintenance.
78. Intensive Electrical Maintenance.
79. Extra Fence Repair.

80. Composting Operations.
81. Cadet Area Lock Repair.
82. Snow Removal (Andrews).

APPROVED VARIANCES

A4.1. Title. Positive Mission Variance for Manned Prime Electrical Power Generating Plants.

A4.1.1. Definition. This variance quantifies the manpower required to operate, repair, and maintain manned prime power plants. It does not apply to individual building generators serviced by roving personnel.

A4.1.2. Applicability and Impact. This variance applies to the Infrastructure Support Element and the Maintenance Engineering Element at the following bases:

BASE	MAN-HOURS	BASE	MAN-HOURS
Eielson	9192.00	Lajes	3652.00
Elmendorf	6788.00	Offutt	2731.90
Lackland	3856.80		

A4.1.3. Source of Impact. MAJCOM-validated requirement.

A4.1.4. Special Application Instructions. The AFSC requirements are driven by local conditions and plant technology.

A4.2. Title. Positive Mission Variance for Manned Standby Power Plants.

A4.2.1. Definition. This variance quantifies the manpower required to operate and perform operator maintenance for manned standby power plants. This does not apply to the operation or maintenance of standby generators which is in the CORE.

A4.2.2. Applicability and Impact. This variance applies to the Infrastructure Support Element at the following bases:

BASE	MAN-HOURS	BASE	MAN-HOURS
Andersen	1446.30	Kaduna	1767.70
Andrews	891.16	Misawa	1461.00
Barksdale	642.50	Offutt	803.50
Beale	160.70	Tyndall	642.50
Howard	1124.90	Vandenberg	4383.00

A4.2.3. Source of Impact. MAJCOM-validated estimate.

A4.2.4. Special Application Instructions. The AFSC requirements are driven by local conditions and plant technology.

A4.3. Title. Positive Mission Variance for Manned Heating Plants.

A4.3.1. Definition. This variance quantifies the man-hours required for operators and associated operator maintenance for heating plants that are manned 24 hrs/day. It does not apply to individual building heating equipment serviced by roving personnel. Manpower associated with maintenance and repair of the heating plant is considered to be adequately provided for by the flight man-hour equation. This variance also includes the man-hours for manning satellite high temperature hot water converter plants at Wright-Patterson AFB.

A4.3.2. Applicability and Impact. This variance applies to the Infrastructure Support Element at the following bases:

BASE	MAN-HOURS	BASE	MAN-HOURS
Andrews	6428.00	McChord	1607.00
Aviano	803.44	McClellan	4981.70
Barksdale	803.50	McConnell	2410.50
Bitburg	3213.77	McGuire	1607.00
Bolling	3214.00	Minot	3214.00
Brooks	1607.00	Misawa	7392.20
Charleston	1607.00	Mountain Home	2571.20
Davis-Monthan	803.50	Nellis	803.50
Dover	1607.00	Offutt	4017.50
Dyess	803.50	Osan	803.50
Eglin	803.50	Patrick	1607.00
Ellsworth	2731.90	Pope	1607.00
Fairchild	3535.40	Ramstein	9644.00
FE Warren	3053.30	Randolph	803.50
Grand Forks	2571.20	Rhein Main	1928.40
Hanscom	1607.00	Robins	3214.00
Hill	6588.70	Scott	1607.00
Hurlburt	803.50	Seymour Johnson	2410.50
Keesler	3214.00	Shaw	2410.50
Kelly	4981.70	Sheppard	803.50
Kirtland	2410.50	Spangdahlem	6427.54
Lackland	803.50	Tinker	10766.90
Lajes	1607.00	Travis	1607.00
Langley	2410.50	USAF Academy	2892.80
Luke	803.50	Vandenberg	3214.00
MacDill	803.50	Whiteman	1607.00
Malmstrom	3535.40	Wright-Patterson	13980.90
Maxwell	3214.00	Yokota	8195.70

A4.3.3. Source of Impact. MAJCOM-validated estimate.

A4.3.4. Special Application Instructions. The AFSC requirements are driven by local conditions and plant technology. Manpower earned by this variance should be civilian.

A4.4. Title. Positive Technological Variance for Manned Wastewater Plants.

A4.4.1. Definition. This variance quantifies the man-hours required to operate and perform operator maintenance on manned wastewater treatment plants. For manned industrial wastewater treatment plants include the man-hours to maintain and repair the industrial wastewater collection system. Maintenance for other collection systems is provided in the CORE standard. This variance does not apply to packaged plants (self-contained plants).

A4.4.2. Applicability and Impact. This variance applies to the Infrastructure Support Element at the following bases:

BASE	MAN-HOURS	BASE	MAN-HOURS
Andrews	973.95	MacDill	1767.70
Beale	1767.70	McClellan	3986.98
Bitburg	964.13	Minot	642.80
Cannon	642.80	Misawa	4981.70
Davis-Monthan	642.80	Mountain Home	482.10
Dover	521.76	Osan	168.00
Edwards	321.40	Patrick	1462.37
Eglin	4432.60	Ramstein	964.13
Eielson	1767.70	Rhein Main	803.44
Ellsworth	1767.70	Robins	6393.65
Fairchild	640.00	Scott	1767.70
Hill	6290.50	Shaw	1148.28
Holloman	803.50	Sheppard	964.20
Howard	1767.70	Spangdahlem	1446.30
Hurlburt	2089.10	Tinker	5750.20
Kelly	2892.60	Tyndall	1849.18
Kunsan	522.00	USAF Academy	1607.00
Luke	1461.12	Whiteman	1767.70

A4.4.3. Source of Impact. MAJCOM-validated estimate.

A4.4.4. Special Application Instructions. The AFSC requirements are driven by local conditions and plant technology. Manpower earned by this variance should be civilian.

A4.5. Title. Positive Environmental Variance for Manned Water Treatment Plants.

A4.5.1. Definition. This variance quantifies the man-hours required to operate and perform operator maintenance on manned water treatment plants.

A4.5.2. Applicability and Impact. This variance applies to the Infrastructure Support Element at the following bases:

BASE	MAN-HOURS	BASE	MAN-HOURS
Andersen	1767.70	Luke	1461.12
Andrews	1533.96	McClellan	964.20

Beale	964.20	Misawa	1607.00
Bitburg	803.44	Mountain Home	1618.25
Cannon	1767.70	Nellis	1767.70
Davis-Monthan	1390.00	Osan	1767.70
Dover	521.76	Ramstein	3053.08
Edwards	642.80	Randolph	482.10
Eielson	1767.70	Rhein Main	1285.51
Fairchild	1106.70	Robins	1124.90
Hill	1767.70	Shaw	1607.00
Holloman	1767.70	Spangdahlem	3374.46
Hurlburt	803.50	Tinker	1446.30
Kelly	1767.70	Travis	1621.63
Kirtland	2911.88	USAF Academy	364.10
Kunsan	1767.70	Vandenberg	1928.40
Lackland	642.80	Whiteman	1767.70
Lajes	730.46	Yokota	5142.40

A4.5.3. Source of Impact. MAJCOM-validated estimate.

A4.5.4. Special Application Instructions. The AFSC requirements are driven by local conditions and plant technology. Manpower earned by this variance should be civilian.

A4.6. Title. Positive Mission Variance for Central Industrial Compressed Air Plant and Distribution System.

A4.6.1. Definition. Compressed air plants supplying large volumes of compressed air for cleaning and equipment operation to multiple facilities. Manpower is required to operate and perform operator maintenance. This variance does not apply to single units supporting a single process or building.

A4.6.2. Applicability and Impact. This variance applies to the Infrastructure Support at the following bases:

BASE	MAN-HOURS	BASE	MAN-HOURS
Eglin	160.70	Robins	482.10
Hill	803.50	Tinker	803.50
Kelly	2410.50	Travis	434.80
McClellan	482.10	Wright-Patterson	482.10

A4.6.3. Source of Impact. MAJCOM-validated estimate.

A4.6.4. Special Application Instructions. The AFSC requirements are driven by local conditions and plant technology.

A4.7. Title. Positive Mission Variance for Coal and Ash Handling.

A4.7.1. Definition. Loads and unloads coal railroad cars to plant or bulk storage; activates ash removal system; activates precipitator dump valve; monitors operation; closes dump valve; and inactivates vacuum system.

A4.7.2. Applicability and Impact. This variance applies to the Infrastructure Support Element at the following bases:

BASE	MAN-HOURS	BASE	MAN-HOURS
Eielson	1286.00	Malmstrom	642.80
Fairchild	642.80	Mountain Home	642.80
FE Warren	642.80	Wright-Patterson	249.09

A4.7.3. Source of Impact. MAJCOM-validated estimate.

A4.7.4. Special Application Instructions. The AFSC requirements are driven by local conditions and technology.

A4.8. Title. Positive Environmental Variance for Snow and Ice Removal Operations (36" or more annually).

A4.8.1. Definition. For locations with 36" or more annual snowfall this variance quantifies the manpower required to operate snow and ice removal equipment to clear those areas designated as priority one in the snow and ice control plan. Priority one areas are primary aircraft movement areas, emergency response lanes and primary mission facilities. Examples are the primary runway, primary taxiway(s), transient aircraft service area(s), exit and entrance to fire and ambulance parking facilities, wing OPS, weapons storage areas, alert facilities and contingency response agencies.

A4.8.2. Applicability and Impact. This variance applies to the Heavy Repair Element at bases with 36 or more inches of average snowfall per year.

BASE	MAN-HOURS	BASE	MAN-HOURS
Eielson	7150.50	Hill	4874.03
Ellsworth	4499.60	Malmstrom	2731.90
Elmendorf	7150.50	Minot	4821.00
Fairchild	3014.00	Misawa	3911.00
FE Warren	2410.50	Peterson	356.00
Grand Forks	5481.00	USAF Academy	3422.00
Hanscom	1489.69		

A4.8.3. Source of Impact. MAJCOM-validated estimate.

A4.8.4. Special Application Instructions. The AFSC requirements are driven by local conditions and technology. Snow and ice removal are cyclical, which should be

accommodated by administratively authorizing temporary full-time, part-time, or intermittent personnel to supplement available in-house resources.

A4.9. Title. Positive Mission Variance for Refuse Collection.

A4.9.1. Definition. This variance quantifies the man-hours required to perform refuse collection and disposal services using in-house resources. It does not include hazardous waste collection and disposal.

A4.9.2. Applicability and Impact. This variance specifically excludes locations that have contracted refuse collection and disposal. This variance applies to the Heavy Repair Element at the following bases:

BASE	MAN-HOURS	BASE	MAN-HOURS
Andersen	2410.00	Lajes	2638.69
Eielson	1285.60	Maxwell	1124.90

A4.9.3. Source of Impact. MAJCOM-validated estimate.

A4.9.4. Special Application Instructions. The AFSC requirements are driven by local conditions and technology. This manpower requirement was developed for locations required to perform refuse collection in-house due to cost effectiveness. It does not include QAE responsibilities or recycling program man-hours.

A4.10. Title. Positive Environmental Variance for Military Family Housing (MFH) Maintenance.

A4.10.1. Definition. This variance quantifies the man-hours required to maintain and repair MFH. It does not include man-hours for renovation projects. Utility support is included in core support.

A4.10.2. Applicability and Impact. This variance applies to the Facility Maintenance Element at bases that perform in-house MFH maintenance. Asterisked (*) locations include man-hours from other than US-funded sources.

BASE	MAN-HOURS	BASE	MAN-HOURS
Andersen	3547.00	McConnell	129.96
Aviano	654.20	McGuire	3996.00
Bitburg	2592.09	Misawa*	1802.00
Bolling	4981.70	Nellis	4292.00
Cannon	1184.00	Osan	303.00
Charleston	2089.10	Pope	321.40
Davis Monthan	3108.00	Ramstein	10993.90
Dover	295.69	Randolph	2175.90
Hanscom	1899.47	Rhein Main	2337.55
Holloman	9642.00	Shaw	5476.00

Howard	4981.70	Spangdahlem	1508.88
Kadena*	19279.23	Travis	6390.31
Lajes	6670.00	USAF Academy	2731.90
Langley	3256.00	Yokota*	4955.00
McChord	2571.20		

A4.10.3. Source of Impact. MAJCOM-validated estimate.

A4.10.4. Special Application Instructions. The AFSC requirements are driven by local conditions and technology. However, the manpower table for Facility Maintenance may be used as a guide for an appropriate skill and grade mix. This variance does not apply to locations that have contracted out MFH maintenance.

A4.11. Title. Positive Mission Variance for In-House Grounds Maintenance.

A4.11.1. Definition. This variance quantifies the manpower required to maintain improved and semi-improved and other acreage. Only acreage receiving recurring maintenance is included. The requirement includes, but is not limited to, grass cutting, landscape maintenance, edging, and herbicide and insecticide dispersing. Manpower for cleaning ditches and culverts is included in the CORE equation.

A4.11.2. Applicability and Impact. This variance applies to the Heavy Repair Element at bases that perform in-house grounds maintenance.

BASE	MAN-HOURS	BASE	MAN-HOURS
Andersen	2967.00	Little Rock	1446.30
Andrews	3247.42	Luke	482.10
Aviano	1607.59	MacDill	671.25
Bitburg	1944.07	Maxwell	964.20
Bolling	1998.47	McChord	1325.78
Brooks	1587.39	McClellan	2547.00
Cannon	482.10	Minot	2516.00
Charleston	1967.41	Misawa	1716.00
Edwards	2741.80	Moody	1987.50
Eglin	3813.41	Mountain Home	2516.00
Ellsworth	2072.00	Nellis	5092.30
Elmendorf	2105.25	Osan	1559.25
Hanscom	2067.75	Ramstein	3024.57
Hickam	2005.50	Randolph	2111.70
Hill	4398.98	Rhein Main	1616.89
Holloman	2410.50	Scott	2074.51
Howard	4459.42	Seymour Johnson	1928.40
Hurlburt	1733.80	Spangdahlem	1654.83
Kadena	2713.50	Tinker	2331.00
Keesler	2410.50	Tyndall	2716.27
Kelly	5062.05	USAF Academy	2892.60
Kirtland	3856.80	Whiteman	1628.00
Kunsan	1801.50	Wright-Patterson	5785.20

Lackland	2262.45	Yokota	1977.00
Lajes	2410.50		
Langley	1867.95		

A4.11.3. Source of Impact. MAJCOM-validated estimate.

A4.11.4. Special Application Instructions. The AFSC requirements are driven by local conditions and technology. This variance does not apply to locations that have contracted out grounds maintenance.

A4.12. Title. Positive Mission Variance for Bomb and Gunnery Range Support.

A4.12.1. Definition. This variance quantifies the man-hours required to maintain ranges that support aircraft training. The variance man-hours for range maintenance are site-specific and are driven by the type of weapons systems and targeting requirements. Range maintenance includes, but is not limited to, viewing tower maintenance, road maintenance, ground marker, and target maintenance.

A4.12.2. Applicability and Impact. This variance applies to the Heavy Repair Element at the following bases:

BASE	MAN-HOURS	BASE	MAN-HOURS
Altus	56.00	Holloman	482.10
Barksdale	60.00	Kadena	80.00
Charleston	66.75	McChord	65.89
Edwards	964.20	Misawa	181.00
Eglin	7392.20	Travis	160.00
Eielson	2559.00		

A4.12.3. Source of Impact. MAJCOM-validated estimate.

A4.12.4. Special Application Instructions. The AFSC requirements are driven by local conditions and technology. The man-hours to maintain the base small arms firing range are not included.

A4.13. Title. Positive/Negative Mission Variance for Aircraft Arresting Barrier Maintenance Other Than MA-1A or BAK-12.

A4.13.1. Definition. This variance addresses the additional manpower requirement for bases with aircraft arresting systems other than the MA-1A and BAK-12 systems. It accounts for the increased man-hour requirement for maintenance, repair, and inspection of installed systems above that required for MA-1A or BAK-12 systems. (This assumes two each MA-1A or BAK-12 installed barriers as the core manpower baseline. Bases with none or fewer than a total of four will have a negative variance.)

A4.13.2. Applicability and Impact. This variance applies to the Infrastructure Support Element at the following bases:

BASE	MAN-HOURS	BASE	MAN-HOURS
Altus	-333.12	MacDill	-333.12
Andersen	803.00	Malmstrom	-132.32
Aviano	134.52	Maxwell	-333.12
Bitburg	134.52	McClellan	696.88
Bolling	-333.12	McGuire	-333.12
Brooks	-333.12	Misawa	145.00
Cannon	353.54	Moody	337.47
Charleston	-66.16	Mountain Home	274.80
Davis-Monthan	147.28	Nellis	701.68
Dover	-333.12	Offutt	-333.12
Dyess	-333.12	Osan	188.00
Edwards	-171.95	Patrick	147.28
Eglin	617.09	Peterson	-333.12
Eielson	-32.00	Pope	284.68
Ellsworth	-333.12	Ramstein	-53.52
Elmendorf	411.00	Randolph	364.24
FE Warren	-333.12	Rhein Main	-333.12
Grand Forks	-333.12	Robins	-49.82
Hanscom	-333.12	Scott	-333.12
Hickam	182.00	Seymour Johnson	284.68
Hill	163.91	Shaw	554.40
Holloman	781.60	Sheppard	-68.48
Howard	144.63	Spangdahlem	462.84
Hurlburt	-333.12	Tinker	262.00
Kadena	257.00	Travis	-333.12
Keesler	-333.12	Tyndall	808.72
Kelly	229.80	USAF Academy	-333.12
Kirtland	335.86	Vandenberg	-333.12
Kunsan	362.00	Whiteman	-333.12
Lackland	-333.12	Wright-Patterson	88.96
Little Rock	-333.12	Yokota	-132.00
Luke	674.68		

A4.13.3. Source of Impact. MAJCOM-validated-estimate.

A4.13.4. Special Application Instructions. This variance earns AFSC 3E0X2; however, the skill level is driven by local conditions and technology.

A4.14. Title. Positive Technological Variance for Energy Management Control System (EMCS) and Supervisory Control and Data Acquisition (SCADA) Systems.

A4.14.1. Definition. This variance quantifies the man-hours required to operate EMCS and/or SCADA. MAJCOMs must validate that the salaries and cost of operation will be offset by utility savings generated.

A4.14.2. Applicability and Impact. This variance applies to the Infrastructure Support Element at bases where the cost to man the system is offset by the dollar savings attributed to system operation.

BASE	MAN-HOURS	BASE	MAN-HOURS
Altus	482.10	MacDill	803.50
Andrews	173.49	Malmstrom	173.92
Barksdale	321.40	Maxwell	803.50
Beale	803.50	McChord	803.50
Bolling	803.50	McClellan	803.50
Brooks	730.46	McConnell	803.50
Cannon	803.50	McGuire	803.50
Charleston	803.50	Moody	803.50
Davis-Monthan	803.50	Mountain Home	803.50
Dyess	803.50	Nellis	803.50
Edwards	803.50	Offutt	803.50
Eielson	160.00	Patrick	803.50
Ellsworth	803.50	Peterson	803.50
Fairchild	803.50	Pope	803.50
FE Warren	803.50	Randolph	803.50
Grand Forks	803.50	Robins	803.50
Hanscom	332.65	Scott	173.92
Hill	803.50	Seymour Johnson	803.50
Holloman	803.50	Shaw	730.46
Howard	482.10	Sheppard	803.50
Hurlburt	803.50	Tinker	154.00
Keesler	803.50	Travis	803.50
Kelly	803.50	Tyndall	803.50
Kirtland	803.50	USAF Academy	803.50
Lackland	1607.00	Vandenberg	803.50
Langley	803.50	Whiteman	803.50
Little Rock	173.92	Wright-Patterson	1607.00
Luke	803.50		

A4.14.3. Source of Impact. MAJCOM-validated estimate.

A4.14.4. Special Application Instructions. The AFSC requirements are driven by local conditions and technology. The man-hours for this variance should be verified in light of the current funded authorizations and the ability of the system to offset the manpower requirement with energy savings and reduced maintenance and repair costs.

A4.15. Title. Negative Mission Variance for No Government Operated Civil Engineering Store (GOCESS) to Manage.

A4.15.1. Definition. This variance quantifies the man-hours that would be required to manage a supply store with in-house resources and subtracts them from the CORE equation man-hours. Additionally, it adds one authorization for QAE duties at locations that have a contractor-operated supply store.

A4.15.2. Applicability and Impact. This variance applies to the Material Acquisition Element at bases that have either contract-operated supply stores (COCESS) or base supply-run stores.

BASE	MAN-HOURS	BASE	MAN-HOURS
Altus	-118.92	Malmstrom	-147.84
Andersen	-120.00	McClellan	-160.70
Aviano	-279.62	Minot	-167.13
Barksdale	-199.27	Moody	-112.49
Beale	-133.38	Mountain Home	-112.49
Bitburg	-279.62	Osan	-318.40
Cannon	-112.49	Ramstein	-279.62
Charleston	-118.92	Rhein Main	-279.62
Ellsworth	-221.77	Seymour Johnson	-112.49
FE Warren	-165.52	Spangdahlem	-279.62
Hanscom	-173.56	Tyndall	-112.49
Hurlburt	-118.92	USAF Academy	-160.70
Kadena	-280.00	Vandenberg	-107.83
Kunsan	-318.40	Whiteman	-120.53
Little Rock	-118.92	Yokota	-280.00

A4.15.3. Source of Impact. Workshop measurement.

A4.15.4. Special Application Instructions. This is a negative variance to the AFSC 2S0X3s earned by the CORE equation.

A4.16. Title. Positive Mission Variance for Support Strategic Missile Facilities (GSU).

A4.16.1. Definition. Variance man-hours are for maintenance activities supporting missile wings. Man-hours include requirements for additional security procedures and long distances to leased land areas.

A4.16.2. Applicability and Impact. This variance applies to the Facility Maintenance Element at the following bases:

BASE	MAN-HOURS	BASE	MAN-HOURS
Ellsworth	1607.00	Minot	7070.80
FE Warren	7070.80	Vandenberg	2356.00
Grand Forks	7070.80	Whiteman	1607.00
Malmstrom	9426.80		

A4.16.3. Source of Impact. MAJCOM-validated estimate.

A4.16.4. Special Application Instructions. The AFSC requirements are driven by local conditions and technology.

A4.17. Title. Positive Mission Variance for Consolidated Aircraft Support System (CASS).

A4.17.1. Definition. This variance earns man-hours for the maintenance and repair of Consolidated Aircraft Support Systems. It includes pipeline, valve, and electronic equipment.

A4.17.2. Applicability and Impact. This variance applies to the Infrastructure Support Element at the following bases:

BASE	MAN-HOURS	BASE	MAN-HOURS
Barksdale	642.80	McConnell	1124.90
Dyess	1607.00	Randolph	321.40
Ellsworth	2089.1	Sheppard	321.40
Grand Forks	1124.90	Whiteman	1607.00

A4.17.3. Source of Impact. MAJCOM-validated estimate.

A4.17.4. Special Application Instructions. The AFSC requirements are driven by local conditions and technology.

A4.18. Title. Positive Environmental Variance for Domestic and Commercial Appliance Maintenance for Overseas and Remote Locations.

A4.18.1. Definition. At some overseas and remote locations, conditions preclude contract maintenance and repair of domestic and commercial appliances. This variance will pertain to only the maintenance and repair. Installation of appliances (other than in MFH) is part of the CORE workload.

A4.18.2. Applicability and Impact. This variance applies to the Infrastructure Support Element at the following bases:

BASE	MAN-HOURS	BASE	MAN-HOURS
Andersen	1607.00	Lajes	1767.70
Aviano	1607.00	Misawa	1653.00
Bitburg	803.50	Osan	386.00
Eielson	320.00	Ramstein	3491.37
Hickam	48.00	Rhein Main	1446.30
Howard	34.00	Spangdahlem	1124.90
Kadena	11920.00	Yokota	2088.00

A4.18.3. Source of Impact. MAJCOM-validated estimate.

A4.18.4. Special Application Instructions. The AFSC requirements are driven by local conditions and technology. This variance does not apply to CONUS locations.

A4.19. Title. Positive Mission Variance for Back-up Generator Maintenance.

A4.19.1. Definition. Locations with a larger-than-normal number of emergency generators due to mission requirements. This variance quantifies the manpower to operate and maintain over 100 generators.

A4.19.2. Applicability and Impact. This variance applies to the Infrastructure Support Element at the following bases:

BASE	MAN-HOURS	BASE	MAN-HOURS
Andersen	136.50	Ramstein	299.00
Bitburg	292.50	Spangdahlem	559.00
Kadena	565.50	Vandenberg	396.50
Misawa	461.50	Yokota	32.50
Osan	227.50		

A4.19.3. Source of Impact. MAJCOM-validated estimate.

A4.19.4. Special Application Instructions. The AFSC requirements are driven by local conditions and technology.

A4.20. Title. Positive Mission Variance for Manned Chilled Water Plants.

A4.20.1. Definition. This variance quantifies the manpower required for operators of large (over 2000 ton) central chilled water plants that are manned 24 hrs/day and serve multiple facilities. This also applies to the chilled water plant that serves DIA at Bolling AFB. Manpower associated with maintenance and repair of the central plant is considered to be adequately provided for by the CORE man-hour equation.

A4.20.2. Applicability and Impact. This variance applies to the Infrastructure Support Element at the following bases:

BASE	MAN-HOURS	BASE	MAN-HOURS
Bolling	808.00	Offutt	1607.00
Brooks	730.46	Ramstein	1607.00
Eglin	964.20	Robins	888.00
Lackland	803.50	Tinker	5772.00
McClellan	803.50	Wright-Patterson	1406.90
McGuire	1036.00		

A4.20.3. Source of Impact. MAJCOM-validated estimate.

A4.20.4. Special Application Instructions. The AFSC requirements are driven by local conditions and plant technology.

A4.21. Title. Negative Mission Variance for Contracted Facility Painting.

A4.21.1. Definition. This variance quantifies the man-hours to be subtracted from the CORE man-hours at locations that have contracted facility painting.

A4.21.2. Applicability and Impact. This variance applies to the Heavy Repair Element at the following bases:

BASE	MAN-HOURS	BASE	MAN-HOURS
Andrews	-3256.00	Little Rock	-1332.00
Bolling	-1480.00	McChord	-1628.00
Charleston	-1332.00	McConnell	-740.00
Dyess	-592.00	McGuire	-2664.00
Eglin	-2664.00	Peterson	-1036.00
Eielson	-2368.00	Pope	-1480.00
Ellsworth	-1332.00	Scott	-2368.00
Grand Forks	-1480.00	Sheppard	-2960.00
Hurlburt	-1036.00	Tinker	-3848.00
Keesler	-2368.00	USAF Academy	-4292.00

A4.21.3. Source of Impact. MAJCOM-validated estimate.

A4.21.4. Special Application Instructions. The AFSC requirements are driven by local conditions.

A4.22. Title. Positive/Negative Mission Variance for Leveling.

A4.22.1. Definition. One of the goals of the CE objective flight AFMS development effort was to create AFMSs that would, as fairly as possible, level available authorizations between bases, given a certain workload. Past manpower funding and management decisions had resulted in a considerable disparity between bases with equal work. Consequently, AFMSs were developed that eliminated the disparity. However, during staffing of the AFMSs, it was determined that the leveling effect should be limited to a certain percentage of existing resources. The MAJCOM Integration Review Team (MIR III) established this limit at +/- 20% of the core. This variance brings those bases that exceeded this limit back into the acceptable range established by the MIR by adding or subtracting the man-hour impact shown below from the affected base's core man-hour requirement. This variance quantifies the man-hours to be added or subtracted from the CORE man-hours at locations that would have been impacted by more than the leveling limits set by the MIR III (+/- 20% of the core).

A4.22.2. Applicability and Impact. This variance applies to the Operations Flight at the following bases:

BASE	MAN-HOURS	BASE	MAN-HOURS
Barksdale	2400.62	Kirtland	-8103.03
Bolling	1492.23	MacDill	2632.05
Brooks	-3378.45	Misawa	-901.33
Dyess	1687.76	Moody	-551.63

Hanscom	-5842.24	Nellis	-4475.19
Howard	-1179.80	Travis	-2389.88
Hurlburt	-2240.02	Whiteman	905.53

A4.22.3. Source of Impact. MAJCOM Integration Review Team-Directed variance.

A4.22.4. Special Application Instructions. The AFSC requirements are driven by local conditions.

A4.23. Title. Positive Mission Variance for Coastal Switch

A4.23.1. Definition. This variance quantifies the manpower required at coastal locations for additional maintenance and repair due to the corrosive effects of salt air. The bases selected for this variance was established by the MIR and approved by the MAJCOM/CEs and Air Staff. The amount of man-hours was determined by the use of multivariate regression analysis.

A4.23.2. Applicability and Impact. Installations that have coastal switch earn 2,998.67 monthly man-hours.

A4.23.3. Source of Impact. MAJCOM-validated estimate.

A4.23.4. Special Application Instructions. This variance applies only to the following installations.

BASE	MAN-HOURS	BASE	MAN-HOURS
Andersen	2,998.67	Kunsan	2,998.67
Bolling	2,998.67	Lajes	2,998.67
Eglin	2,998.67	Langley	2,998.67
Hickam	2,998.67	MacDill	2,998.67
Howard	2,998.67	Misawa	2,998.67
Hurlburt	2,998.67	Patrick	2,998.67
Kadena	2,998.67	Tyndall	2,998.67
Keesler	2,998.67	Vandenberg	2,998.67

A4.24. Title. Positive Mission Variance for No Manned Heat Plant Switch.

A4.24.1. Definition. This variance quantifies the manpower required at locations that do not have the manned heat plant variance. The amount of man-hours was determined by the use of multivariate regression analysis.

A4.24.2. Applicability and Impact. Installations that have a No Manned Heat Switch earn 2,184.040 monthly man-hours.

A4.24.3. Source of Impact. MAJCOM-validated estimate.

A4.24.4. Special Application Instructions. This variance applies only to the following installations:

BASE	MAN-HOURS	BASE	MAN-HOURS
Altus	2,184.040	Howard	2,184.040
Andrews	2,184.040	Kadena	2,184.040
Beale	2,184.040	Kunsan	2,184.040
Cannon	2,184.040	Lakenheath	2,184.040
Cheyenne Mountain	2,184.040	Laughlin	2,184.040
Columbus	2,184.040	Little Rock	2,184.040
Edwards	2,184.040	Mildenhall	2,184.040
Goodfellow	2,184.040	Moody	2,184.040
Hickam	2,184.040	Peterson	2,184.040
Holloman	2,184.040	Tyndall	2,184.040

A4.25. Title. Positive Mission Variance for Non-Potable (Secondary) Water Distribution Systems Maintenance.

A4.25.1. Definition. This variance quantifies the manpower required for the maintenance of non-potable water distribution systems that reuse treated effluent from waste water treatment facilities. Systems include piping, valves, pump stations, sprinklers, wells, and stabilization ponds. This variance includes but is not limited to maintenance, repair, and periodic analysis of reclaimed water.

A4.25.2. Applicability and Impact. This variance applies to the Infrastructure Support Element at the following base:

BASE	MAN-HOURS
USAF Academy	524.08

A4.25.3. Source of Impact. MAJCOM-validated estimate.

A4.25.4. Special Application Instructions. The AFSC requirements are driven by local conditions and plant technology.

A4.26. Title. Positive Mission Variance for Maintenance of Special Academy Facilities.

A4.26.1. Definition. This variance quantifies the manpower required to provide the high level of maintenance for complex educational and related facilities at the USAF Academy.

A4.26.2. Applicability and Impact. This variance applies to the entire flight at the following base:

BASE	MAN-HOURS
USAF Academy	4588.00

A4.26.3. Source of Impact. MAJCOM-validated estimate.

A4.26.4. Special Application Instructions. The AFSC requirements are driven by local conditions and technology.

A4.27. Title. Positive Mission Variance for Wilford Hall Medical Center.

A4.27.1. Definition. This variance quantifies the man-hours validated for support of the special maintenance requirements of the leading USAF medical facility. These man-hours are in addition to those earned through applying the core equation weighted floor space for Wilford Hall and other Lackland facilities.

A4.27.2. Applicability and Impact. Applies to the Operations Flight at Lackland AFB only.

BASE	MAN-HOURS
Lackland	2998.20

A4.27.3. Source of Impact. MAJCOM-validated estimate.

A4.27.4. Special Application Instructions. The AFSC requirements are driven by local conditions.

A4.28. Title. Positive Mission Variance for Coal Stoking of MFH and Base Boilers.

A4.28.1. Definition. This variance quantifies the man-hours required for hand stoking coal-fired domestic hot water and heating boilers. These boilers are located in and supply service to multi-apartment MFH buildings, as well as individual base facilities not serviced by a central boiler plant. These operators stoke and monitor multiple boiler units within their areas of responsibility.

A4.28.2. Applicability and Impact. This variance applies to the Infrastructure Support Element at the following bases:

BASE	MAN-HOURS	BASE	MAN-HOURS
Bitburg	2699.56	Spangdahlem	3727.97
Ramstein	17354.34		

A4.28.3. Source of Impact. MAJCOM-validated estimate.

A4.28.4. Special Application Instructions. The AFSC requirements are driven by local conditions.

A4.29. Title. Negative Mission Variance for Non-Standard Operation at MacDill AFB.

A4.29.1. **Definition.** MacDill AFB's mission changed from an Operational Wing to an Air Base Wing. A negative mission variance is required because of non-performance of work contained in the core AFMS.

A4.29.2. **Applicability and Impact:**

A4.29.2.1. Infrastructure Support Element. -751.50 Man-hours.

A4.29.2.2. Heavy Repair Element. -259.90 Man-hours.

A4.29.3. **Source of Impact.** MAJCOM-validated estimate.

A4.29.4. **Special Application Instruction.** Specific grade/skill impacts will be determined by the MAJCOM.

A4.30. Title. Positive Environmental Variance for Breathing-Quality Air Systems Plants.

A4.30.1. **Definition.** Breathing-quality air plants, supplying air to multiple industrial paint facilities, require additional personnel to operate and perform operator maintenance.

A4.30.2. **Applicability and Impact.** This variance applies to the Infrastructure Support Element at the following bases:

BASE	MAN-HOURS	BASE	MAN-HOURS
Robins	160.70	Tinker	803.50

A4.30.3. **Source of Impact.** MAJCOM-validated estimate.

A4.30.4. **Special Application Instructions.** The AFSC requirements are driven by local conditions and plant technology.

A4.31. Title. Positive Mission Variance for Depot/Support Technology Center.

A4.31.1. **Definition.** This variance quantifies the man-hours required to provide maintenance engineering support for depot-unique technology centers and associated systems.

A4.31.2. **Applicability and Impact.** This variance applies to the Maintenance Engineering Element at the following base:

BASE	MAN-HOURS
Wright-Patterson	1928.40

A4.31.3. **Source of Impact.** MAJCOM-validated estimate.

A4.31.4. Special Application Instructions. The AFSC requirements are driven by local conditions.

A4.32. Title. Positive Mission Variance for Air Force Materiel Command-Unique Hazardous Material (HAZMAT) Emergency Cleanup Teams.

A4.32.1. Definition. This variance quantifies the man-hour requirement to operate HAZMAT Emergency cleanup teams at Air Force Materiel Command bases. The magnitude and complexity of the AFMC HAZMAT mission is significantly larger than other bases because of the laboratories and large industrial-type facilities. In addition to the normal base hazardous materials associated with aircraft maintenance and base maintenance, there is a larger variety and quantity of exotic and complex chemicals at AFMC bases. The quantities and types far exceed those found at other bases and are needed to support command missions. Over 80 percent of all the hazardous waste in the Air Force is produced in this Command. The AFMC HAZMAT Emergency Response Teams and additional team members, especially at the Air Logistics Centers, require considerable ongoing training. Preparation by these teams is extensive to ensure compliance with EPA regulatory requirements.

A4.32.2. Applicability and Impact. This variance applies to the following bases:

BASE	MAN-HOURS	BASE	MAN-HOURS
Brooks	642.80	McClellan	1607.00
Edwards	642.80	Robins	1124.90
Eglin	642.80	Tinker	1607.00
Hill	1124.90	Wright-Patterson	1607.00
Kelly	1124.90		

A4.32.3. Source of Impact. MAJCOM-validated estimate.

A4.32.4. Special Application Instructions. The AFSC requirements are driven by local conditions.

A4.33. Title. Positive Mission Variance for Dry Lake Bed Runway Maintenance.

A4.33.1. Definition. This variance quantifies the man-hours required to maintain approximately 17 miles of emergency landing surfaces (runways) on Rodgers and Rosamund dry lake beds. Work includes installation/repair of runway markings; patching of ruts, holes, and crevices; leveling; watering; and compacting uneven surfaces. The variance supports unique infrastructure impacting primary missions.

A4.33.2. Applicability and Impact. This variance applies to the following base:

BASE	MAN-HOURS
Edwards	915.99

A4.33.3. Source of Impact. MAJCOM-validated estimate.

A4.33.4. Special Application Instructions. The AFSC requirements are driven by local conditions.

Attachment 5**PROCESS ANALYSIS SUMMARIES****PROCESS ANALYSIS SUMMARY (IN PRIORITY ORDER)****MATERIAL ACQUISITION**

<u>PROCESS TITLE</u>	<u>AVERAGE PROCESS ACCOMPLISHMENT TIME (MAN-HOURS)</u>	<u>PROJECTED WORKLOAD</u>
RECEIVES CONTINGENCY TRAINING.	8.00	2 MIL PER TRAINED/2 MONTH
RECEIVES CERTIFICATION TRAINING.	1.29	7 TRAINED PERSONS/MONTH
CONDUCTS MATERIAL ACQUISITION.	0.14	7349 ACTIONS/MONTH
MANAGES VEHICLE FLEET.	0.57	88 VEHICLES/MONTH
PERFORMS APPLIANCE MGT.	0.25	38 ACTIONS/MONTH
MANAGES SELF-HELP STORE.	0.12	1299 ACTIONS/MONTH

PROCESS ANALYSIS SUMMARY (IN PRIORITY ORDER)**MAINTENANCE ENGINEERING**

<u>PROCESS TITLE</u>	<u>AVERAGE PROCESS ACCOMPLISHMENT TIME (MAN-HOURS)</u>	<u>PROJECTED WORKLOAD</u>
RECEIVES CONTINGENCY TRAINING.	8.00	2 MIL PER TRAINED/2 MONTH
MANAGES INFRASTRUCTURE MAINTENANCE AND REPAIR PROGRAM.	58.45	11 PROGRAMS/MONTH
REVIEWS DESIGN PROJECT.	3.77	30 PROJECTS/MONTH
PERFORMS WORK ANALYSIS.	37.33	3 STUDIES/MONTH
MANAGES CONTRACT.	18.00	112 CONTRACTS/YEAR
PROVIDES NON-DESIGN DRAFTING SUPPORT.	1.93	29 ACTIONS/MONTH

PROCESS ANALYSIS SUMMARY (IN PRIORITY ORDER)**FACILITY MAINTENANCE**

<u>PROCESS TITLE</u>	<u>AVERAGE PROCESS ACCOMPLISHMENT TIME (MAN-HOURS)</u>	<u>PROJECTED WORKLOAD</u>
RECEIVES CONTINGENCY TRAINING.	8.00	35 MIL PER TRAINED/2 MONTH
RECEIVES CERTIFICATION TRAINING.	2.65	57 TRAINED PERSONS/MONTH
PROVIDES CUSTOMER SUPPORT.	0.10	6440 ACTIONS/MONTH
OPERATES FORWARD SUPPLY STORE.	0.70	460 ACTIONS/MONTH
PERFORMS UNMANNED HEAT PLANT SURVEILLANCE.	1.00	4 ACTIONS/DAY
PERFORMS SCHEDULED MAINTENANCE.	1.60	1542 JOBS/MONTH
PERFORMS EMERGENCY REPAIR.	5.60	30 JOBS/MONTH
PERFORMS ROUTINE REPAIR.	8.63	485 JOBS/MONTH
ACCOMPLISHES MINOR PROJECT.	34.41	17 JOBS/MONTH
SUPPORTS SELF-HELP PROJECT.	2.10	52 PROJECTS/MONTH

PROCESS ANALYSIS SUMMARY (IN PRIORITY ORDER)**INFRASTRUCTURE SUPPORT**

<u>PROCESS TITLE</u>	<u>AVERAGE PROCESS ACCOMPLISHMENT TIME (MAN-HOURS)</u>	<u>PROJECTED WORKLOAD</u>
RECEIVES CONTINGENCY TRAINING.	8.00	32 MIL PER TRAINED/2 MONTH
RECEIVES CERTIFICATION TRAINING.	7.50	37 TRAINED PERSONS/MONTH
DETERMINES REQUIREMENTS AND REQUESTS MATERIAL.	0.42	388 ACTIONS/MONTH
MAINTAINS SHOP STOCK.	0.50	135 ACTIONS/MONTH
MANAGES SHOP EQUIPMENT.	0.67	62 ACTIONS/MONTH
OPERATES AIRCRAFT ARRESTING SYSTEM.	6.70	6 ACTIONS/MONTH
OPERATES DIESEL OR GAS GENERATORS.	0.97	25 ACTIONS/MONTH
OPERATES WATER DISTRIBUTION SYSTEM.	1.50	30 ACTIONS/MONTH
OPERATES WASTEWATER COLLECTION SYSTEM.	2.36	30 ACTIONS/MONTH
PERFORMS MAINTENANCE ON EXTERIOR ELECTRICAL SYSTEM.	26.52	21 ACTIONS/MONTH
PERFORMS MAINTENANCE ON AIRFIELD LIGHTING SYSTEM.	18.21	15 ACTIONS/MONTH
PERFORMS MAINTENANCE ON AIRCRAFT ARRESTING SYSTEM.	7.39	30 ACTIONS/MONTH
MAINTAINS GENERATOR.	18.97	25 ACTIONS/MONTH
PERFORMS MAINTENANCE ON LIQUID FUEL SYSTEM.	6.43	30 ACTIONS/MONTH
PERFORMS MAINTENANCE ON GROUNDING AND LIGHTNING PROTECTION SYSTEM.	1.38	15 ACTIONS/MONTH

INFRASTRUCTURE SUPPORT (CONT'D)

<u>PROCESS TITLE</u>	<u>AVERAGE PROCESS ACCOMPLISHMENT TIME (MAN-HOURS)</u>	<u>PROJECTED WORKLOAD</u>
PERFORMS MAINTENANCE ON ALARM SYSTEM.	8.78	28 ACTIONS/MONTH
PERFORMS MAINTENANCE ON SEWAGE SYSTEM.	3.44	21 ACTIONS/MONTH
PERFORMS MAINTENANCE ON WATER DISTRIBUTION SYSTEM.	6.49	50 ACTIONS/MONTH
PERFORMS MAINTENANCE ON DELUGE SYSTEM.	2.12	5 ACTIONS/MONTH
PERFORMS MAINTENANCE ON CATHODIC PROTECTION SYSTEM.	4.77	10 ACTIONS/MONTH
MAINTAINS FUEL GAS DISTRIBUTION SYSTEM.	2.30	2 ACTIONS/MONTH
REPAIRS EXTERIOR ELECTRICAL SYSTEM.	28.11	21 ACTIONS/MONTH
REPAIRS AIRFIELD LIGHTING SYSTEM.	9.75	15 ACTIONS/MONTH
REPAIRS AIRCRAFT ARRESTING SYSTEM.	4.50	5 ACTIONS/MONTH
REPAIRS GENERATOR.	2.60	25 ACTIONS/MONTH
REPAIRS FUEL GAS DISTRIBUTION SYSTEM.	1.15	21 ACTIONS/MONTH
REPAIRS LIQUID FUEL SYSTEM.	4.70	30 ACTIONS/MONTH
REPAIRS ALARM SYSTEM.	8.78	28 ACTIONS/MONTH
REPAIRS SEWAGE COLLECTION SYSTEM.	11.29	21 ACTIONS/MONTH
REPAIRS WATER DISTRIBUTION SYSTEM.	10.48	21 ACTIONS/MONTH
MODIFIES ALARM SYSTEM.	16.00	10 ACTIONS/MONTH

INFRASTRUCTURE SUPPORT (CONT'D)

<u>PROCESS TITLE</u>	<u>AVERAGE PROCESS ACCOMPLISHMENT TIME (MAN-HOURS)</u>	<u>PROJECTED WORKLOAD</u>
MODIFIES EXTERIOR ELECTRIC SYSTEM.	33.83	10 ACTIONS/MONTH
MODIFIES GENERATOR.	2.70	3 ACTIONS/MONTH
MODIFIES SEWAGE COLLECTION SYSTEM.	8.10	1 ACTION/MONTH
MODIFIES WATER DISTRIBUTION SYSTEM.	8.10	1 ACTION/MONTH
MODIFIES LIQUID FUELS SYSTEM.	45.80	2 ACTIONS/MONTH
MODIFIES GROUNDING AND LIGHTNING PROTECTION SYSTEM.	1.20	1 ACTION/MONTH
MODIFIES CATHODIC PROTECTION SYSTEM.	9.50	1 ACTION/MONTH
MODIFIES/INSTALLS GAS FUEL DISTRIBUTION SYSTEM.	28.90	1 ACTION/MONTH

PROCESS ANALYSIS SUMMARY (IN PRIORITY ORDER)**HEAVY REPAIR**

<u>PROCESS TITLE</u>	<u>AVERAGE PROCESS ACCOMPLISHMENT TIME (MAN-HOURS)</u>	<u>PROJECTED WORKLOAD</u>
RECEIVES CONTINGENCY TRAINING.	8.00	30 MIL PER TRAINED/2 MONTH
MANAGES INVENTORY.	1.64	8 ACTIONS/MONTH
OPERATES SWEEPER.	15.75	30 ACTIONS/MONTH
MAINTAINS AIRFIELD.	5.94	20 ACTIONS/MONTH
OPERATES EQUIPMENT TO SUPPORT BASE ACTIVITY.	11.32	22 ACTIONS/MONTH
PERFORMS OPERATOR MAINTENANCE ON EQUIPMENT/ VEHICLES.	13.44	22 ACTIONS/MONTH
MAINTAINS ROAD.	55.77	3 ACTIONS/MONTH
PERFORMS PEST MANAGEMENT.	5.38	65 ACTIONS/MONTH
PROVIDES LOCKSMITH SERVICE.	1.87	160 ACTIONS/MONTH
MAINTAINS STORM DRAINAGE.	13.55	4 ACTIONS/MONTH
MAINTAINS DRIVEWAY, PARKING LOT, & STORAGE AREA.	12.09	1 ACTION/MONTH
MAINTAINS SIDEWALKS, BIKE, AND JOGGING SURFACE.	35.00	1 ACTION/MONTH
REPAIRS AIRFIELD.	20.36	3 ACTIONS/MONTH
REPAIRS INTERIOR FACILITY.	66.57	5 ACTIONS/MONTH
REPAIRS BUILDING UTILITY SYSTEM.	64.57	2 ACTIONS/MONTH
OPERATES EQUIPMENT TO SUPPORT BASE ACTIVITY.	22.79	22 ACTIONS/MONTH
REPAIRS ROAD.	50.60	3 ACTIONS/MONTH

HEAVY REPAIR (CONT'D)

<u>PROCESS TITLE</u>	<u>AVERAGE PROCESS ACCOMPLISHMENT TIME (MAN-HOURS)</u>	<u>PROJECTED WORKLOAD</u>
REPAIRS EXTERIOR FACILITY.	47.83	2 ACTIONS/MONTH
REPAIRS STORM DRAIN.	14.76	1 ACTION/MONTH
REPAIRS FENCE.	26.78	3 ACTIONS/MONTH
REPAIRS DRIVEWAY, PARKING LOT, AND STORAGE AREA.	2.93	1 ACTION/MONTH
REPAIRS SIDEWALKS, BIKE, AND JOGGING SURFACES.	89.67	3 ACTIONS/MONTH
ALTERS BUILDING UTILITY SYSTEM.	168.33	3 ACTIONS/MONTH
ALTERS INTERIOR FACILITY.	157.15	6 ACTIONS/MONTH
ALTERS EXTERIOR FACILITY.	201.74	4 ACTIONS/MONTH
OPERATES EQUIPMENT TO SUPPORT COMM SCHEMES.	80.00	1 ACTION/MONTH
PERFORMS STRUCTURAL CONSTRUCTION.	98.73	1 ACTION/MONTH
CONSTRUCTS ROAD.	154.51	1 ACTION/MONTH
CONSTRUCTS FENCE.	28.21	1 ACTION/MONTH
CONSTRUCTS DITCH, CULVERT, STORM DRAIN, AND SUB-SURFACE DRAIN.	48.00	1 ACTION/MONTH
CONSTRUCTS CURB OR GUTTER.	12.00	1 ACTION/MONTH
CONSTRUCTS DRIVEWAY, PARKING LOT, AND STORAGE AREA.	108.00	1 ACTION/MONTH
CONSTRUCTS SIDEWALK, BIKE, OR JOGGING SURFACE	48.00	1 ACTION/MONTH

Attachment 6**CONTRACT MAN-YEAR EQUIVALENT (CME) DETERMINATION INSTRUCTIONS**

A6.1. CMEs are defined as the number of in-house manpower authorizations that would be required if the contracted workload were performed in-house at the same level of service specified in the contract.

A6.2. Certain civil engineering workload has been cost compared or contracted at over half of the objective wing locations and is not covered by this standard. This work includes grounds maintenance, refuse collection, and family housing maintenance. Other work is traditionally contracted out and is not included in this standard. This work includes railroad maintenance; construction of roads; major roof repairs; custodial services; grease/oil traps, duct, tank, and sewer cleaning; appliance maintenance; office equipment and computer maintenance; lifting device maintenance (elevators); and sanitary landfill operations.

A6.3. If any of the above work is performed in-house, positive mission variances must be developed to credit the flights with authorizations required to perform the work. If the work has been cost compared, the variance will be the in-house bid or the civilian authorizations MES Coded "S" on the UMD to perform the cost-compared work. Attachment 4 contains positive variances for most of the other contracted work not contained in the core.

A6.4. Determining contract man-hour equivalents (CMEs) for non-A-76 contracted work is a complex task that requires selective judgment to decide if adjustments (negative variances) to the flight man-hours are warranted. Although a process or task identified in the flight description is contracted, it should only be considered as a "candidate" for a negative variance. The final determination should take into consideration factors such as manning shortages and personnel mismatches. AFI 38-201, *Determining Manpower Requirements*, contains Air Force policy on CME development.

A6.5. If an entire process or series of processes are contracted and it is determined that a negative variance is required, the following can be used to determine the variance:

A6.5.1. Determine the core process fractional manpower requirements that were contracted by identifying the contracted process(es) listed in the Process Analysis Summary (Attachment 5). For example, assume that alarm maintenance and repair was contracted in the Infrastructure Support Element. This equates to three core manpower requirements.

A6.5.2. The Operations Flight core manpower requirement is 159.

A6.5.3. Determine the percentage of the cost-compared process to the total flight core process man-hours. In this example, it equates to 1.89% (3/159). This step is necessary because the cost-compared process man-hours are imbedded in the core +/- manpower equation.

A6.5.4. Price-out the core +/- manpower equation. For example, assume that the core manpower requirement at your location prices out to 154.01 fractional manpower requirements.

A6.5.5. Determine the negative variance manpower by multiplying the fractional manpower result in paragraph A6.5.4 by the contracted process percentage in paragraph A6.5.3. For example, $154.01 * .0189 = 2.911$.

Attachment 7**BASE SQUARE FOOTAGE WEIGHTING FACTOR (BSFWF)**

A7.1. To determine a man-hour equation for the Operations Flight, a BSFWF was developed. A BSFWF weights a base's facility floor space to account for different intensities of labor required to operate, maintain, and repair Air Force real property by category code.

A7.2. The Labor Category Codes for the different types (uses) of buildings was determined using the best judgment of experienced civil engineers. For example, hangar and simple warehouse buildings were considered low; administrative space was average; and hospital operating room space was high. The weights agreed upon were low maintenance equals .20, average maintenance equals .33, and high maintenance equals .47.

A7.3. The BSFWF is based on information in the Facility Land Summary, that group all buildings by Real Property Code. This information was separated into three categories of labor intensity: Low, Average, and High. The sum of the total base square footage of floor space is computed as a percentile of this total square footage of floor space for each labor intensity category. A unique BSFWF was determined by multiplying this labor intensity percentage by the weighting factor.

A7.4. An example of this computation follows:

Base A's Total Square Footage of Floor Space:	10,000,000
Square Footage Computed as Low Maintenance:	2,000,000 or 20% of the Total
Square Footage Computed as Average Maintenance:	6,000,000 or 60% of the Total
Square Footage Computed as High Maintenance:	2,000,000 or 20% of the Total

Computation:

Labor Intensity Factor	x	Percent	=	BSFWF
.20	x	.20 (low) =		.040
.33	x	.60 (avg.) =		.198
.47	x	.20 (high)=		.094
Base A's BSFWF:				.332

A7.5. If a base experiences a major mission change that would significantly alter the real property mix of the base, the MAJCOM Civil Engineer and Manpower and Organization staff may use the above procedure to recalculate the BSFWF. Process updates to the BSFWF tables in the same manner of a positive and/or negative mission variance.

A7.6. The BSFWFs for the Operations Flight are as follows:

BASE	BSFWF	BASE	BSFWF
Altus	0.316	Little Rock	0.311
Andersen	0.304	Luke	0.313
Andrews	0.315	MacDill	0.319
Aviano	0.281	Malmstrom	0.308
Barksdale	0.356	Maxwell	0.337
Beale	0.302	McChord	0.303
Bolling	0.343	McClellan	0.273
Brooks	0.358	McConnell	0.295
Cannon	0.305	Minot	0.314
Charleston	0.302	Misawa	0.311
Davis-Monthan	0.305	Moody	0.293
Dover	0.298	Mountain Home	0.306
Dyess	0.303	Nellis	0.315
Edwards	0.320	Offutt	0.338
Eglin	0.333	Osan	0.311
Eielson	0.310	Patrick	0.328
Ellsworth	0.310	Peterson	0.326
Elmendorf	0.315	Pope	0.303
Fairchild	0.283	Ramstein	0.322
FE Warren	0.339	Randolph	0.360
Grand Forks	0.301	Robins	0.290
Hanscom	0.375	Scott	0.348
Hickam	0.304	Seymour Johnson	0.306
Hill	0.290	Shaw	0.315
Holloman	0.325	Sheppard	0.328
Howard	0.315	Spangdahlem	0.291
Hurlburt	0.316	Tinker	0.280
Kadena	0.318	Travis	0.334
Keesler	0.336	Tyndall	0.320
Kelly	0.268	USAF Academy	0.381
Kirtland	0.340	Vandenberg	0.376
Kunsan	0.297	Whiteman	0.319
Lackland	0.379	Wright-Patterson	0.360
Lajes	0.314	Yokota	0.317
Langley	0.324		

A7.7. A matrix of category codes by the labor intensity codes follows:

CAT-CODE	CATEGORY DESCRIPTION	LABOR INTENSITY
116661	PAD, AR14 & DISARM	LOW
116663	PAD. HELICOPTER	LOW
121111	PETROL OPS BLDG	LOW
131117	COMM, TMTR	LOW
132131	SILO, HD ANT HP	LOW
132133	PAD EQUIP	LOW
132134	ANT SPT STRU	LOW
133314	DIR FINDING, UHF	LOW
134119	REMOTE CON CIR	LOW

134335	GCI	LOW
134336	GCA FIXED	LOW
134338	GCA VAULT	LOW
134341	GCA/RAPCON SPT BLD	LOW
134351	ILS GLIDE SLOPE	LOW
134353	ILS LOCALIZER	LOW
134355	ILS MARKER BEACON	LOW
134373	TURNTABLE,RDR	LOW
134374	PAR	LOW
134375	RAPCON,CEN	LOW
134376	ASR	LOW
134394	RACON	LOW
134422	RAD BEACON FCLTY	LOW
134465	TACAN STN, FIX	LOW
134473	TWR, NAVAID	LOW
134482	LOW POWER TVOR	LOW
134484	HI PWR VHF OMNI RG	LOW
134511	VORTAC FIXED	LOW
134678	WIND DIR INDCTR	LOW
135583	TEL DUCT FCLTY	LOW
135586	TEL POLE FCLTY	LOW
141181	ACFT SHLTR	LOW
141182	HD ACFT SHLTR	LOW
141185	HELI,RESC/RECOVERY	LOW
141232	AERIAL DLVR FCLTY	LOW
141782	TRML, AIR FRT	LOW
149411	BUNMR	LOW
149965	TWR RDR	LOW
159353	WHSE, T/CARGO	LOW
163212	BUOY	LOW
171472	RG SUP & EQUP STOR	LOW
171473	RG TGT STOR & PR	LOW
171475	RG SM ARM INDOR	LOW
171476	CATM BLDG	LOW
179219	PRCHT SWING TNG	LOW
179371	TNG AID	LOW
179475	RG, SM ARMS SYS	LOW
179476	MACHINE GUN RANGE	LOW
179477	GRENADE GUN RANGE	LOW
179481	RG, ACFT	LOW
211111	HG, MAINT	LOW
211147	SHLTR A/W CALBR	LOW
211152	SHP ACFT GEN PURP	LOW
211153	SHP NON-DESTR INSP	LOW
211154	SHP A/M ORGL	LOW
211157	SHP JET ENG I/MNT	LOW
211159	ACFT COR CON	LOW
211161	COR CON UTIL STOR	LOW
211173	MAINT DOCK, L/A	LOW
211174	CONSOL ACFT MAINT	LOW
211175	MAINT DOCK, M/A	LOW
211177	MAINT DOCK, S/A	LOW
211179	MAINT DOCK, FL SYS	LOW
211183	TST CELL	LOW

211193	TST STD	LOW
211251	SHP TURBINE DEP	LOW
211252	SHP RAM AIR DEP	LOW
211253	SHP ALTNR DRIVE/D	LOW
211254	SHP ACFT & ENG DEP	LOW
211256	SHP ENG TST&STOR/D	LOW
211271	SHP INSTM OVHL DEP	LOW
212212	SHP MSL ASMB	LOW
212213	SHP TAC MSL G/W	LOW
212215	SHP MSL RUN/UP	LOW
212216	SHP MSL SVC	LOW
212217	SHP MSL WH ASMB	LOW
212218	SHP MSL WH MAINT	LOW
212219	SHP MSL BATTERY	LOW
212220	INTCRTD MAINT FAC	LOW
212252	SHP P/ACFT	LOW
213332	BT STOR	LOW
213363	MAR MAINT SHP	LOW
213436	MAR RAILWAY	LOW
214422	VEH SVC RACK	LOW
214425	VEH MA-IN SHP	LOW
214426	VEH OPS HEAT PKNG	LOW
214428	VEH OPS PKNG SHED	LOW
214429	VEH REEL HDN SHLTR	LOW
214467	SHP, REFL VEH	LOW
215552	SHP,WPN & RLSE SYS	LOW
215553	SHP, A/WPN/O/DEP	LOW
215554	SHP, ORD EQUIP/D	LOW
215555	SHP, CTRGE/O/DEP	LOW
215582	SHP, SRVLL INSP	LOW
216642	SHP CONVL MUN	LOW
218712	SHP A/SE STOR FCLT	LOW
218827	SHP,FUR RPR OIS	LOW
218842	SHP SHLTR LCMTV	LOW
218852	SHP SURV EQUIP	LOW
219943	BE PAV GRND FCLTY	LOW
219944	BE MAINT SHOP	LOW
219945	BE HOSP MA.INT SHP	LOW
219946	BE STOR CV FCTLY	LOW
219947	BE STOR SHED	LOW
229982	ASPHALT PIT	LOW
229984	CONCRETE PIT	LOW
229986	OXYGEN GEN PIT	LOW
229987	ROCK CRSRR PIT	LOW
390221	ARMT RSCH STOR	LOW
422273	STOR, IGLOO SAU	LOW
432283	COLD STOR BSE	LOW
441628	SHED SUP EQUIP DEP	LOW
441758	WHSE SUP EQUIP DEP	LOW
442258	STOR LIQ OXYGEN	LOW
442515	MED STOR (WRM)	LOW
442628	SHED SUP&EQUIP BSE	LOW
442758	WHSE SUP&EQUIP BSE	LOW
442765	WHSE, TROOP SUBSIS	LOW

442768	WHSE,FORM &PUB,BSE	LOW
442769	HSG SUP-STOR FCLTY	LOW
510264	AMB SHELTER	LOW
510713	MATERIAL SERVICES	LOW
610332	FARM FCLTY	LOW
610675	LOG FCLTY DEP OPS	LOW
610717	PIT, PRINTING	LOW
610718	PLT, REPRODUCTION	LOW
690625	SHLTR, TROOP	LOW
690792	STD, REVIEW CV	LOW
690795	STD, REVIEW OPEN	LOW
690798	KENNEL STRAY ANML	LOW
713352	TLR CRT SPT FCLTY	LOW
713366	TLR CRT PARKING	LOW
714128	ATNDT QTRS	LOW
714431	GARGE FAM HSG DET	LOW
714432	CARP FAM HSG DET	LOW
714433	STOR FAM HSG DET	LOW
723242	GARGE, AUTO	LOW
725513	CAMP, CIVILIAN	LOW
725517	CAMP, TROOP	LOW
730275	BUS, SHLTR	LOW
730277	BUS, STN	LOW
730443	POST OFFICE CEN	LOW
730551	LDRY-DRY CLN BSE	LOW
730652	DRY CLN, BSE	LOW
730711	LDRY, BSE	LOW
730713	LDRY, DEP	LOW
730717	CLOTHING STORE	LOW
730725	PIT, ICE CREAM	LOW
730771	CHAPEL BASE	LOW
730772	REF	LOW
730773	CHAPEL CEN	LOW
730831	CORRECTION FCLTY	LOW
730832	SP CON IDENT	LOW
730837	SP ENTRY CON BLDG	LOW
730839	TRAFFIC CHK HSE	LOW
730841	SP KENNEL, CANINE	LOW
730842	SP KENNEL SPT BLDG	LOW
730911	MORTUARY	LOW
740153	BANK BRANCH	LOW
740155	CREDIT UNION	LOW
740255	THRIFT SHP	LOW
740262	STORE, BOOK	LOW
740270	ANIMAL CLINIC	LOW
740315	CLUB, ROD & GUN	LOW
740317	CLUB, AERO	LOW
740379	EXCH, AMUSE CEN	LOW
740381	EXCH, CAFE SNK BAR	LOW
740382	EXCH, BRANCH	LOW
740383	EXCH, SVC STN	LOW
740384	EXCH IMRY&CLN PIT	LOW
740385	EXCH, MAINT SHP	LOW
740386	EXCH, ADMIN	LOW

740387	EXCH, RETAIL WHSE	LOW
740388	EXCH, SALES STORE	LOW
740389	EXCH, SVC OUTLET	LOW
740396	CENTRAL EXCH ADMIN	LOW
740397	CENTRAL EXCH WHSE	LOW
740398	CEN EXCH SPT FCLTY	LOW
740612	OPEN MESS, AMN	LOW
740615	OPEN MESS, CONSOL	LOW
740617	OPEN MESS, NCO	LOW
740618	OPEN MESS, OFF	LOW
740657	ANTENNA, MSTR TV	LOW
740664	ARTS&CRAFTS CENTER	LOW
740665	H/SHP,AUTOMOTIVE	LOW
740666	RECTN SITE LODGING	LOW
740668	MISC RECTN BLDG	LOW
740671	BOWL CEN	LOW
740672	MWR SUP/NAF C--STOR	LOW
740674	GYMNASIUM	LOW
740675	RECTN, LIB	LOW
740678	SKATE RINK	LOW
740731	SHOPPING CEN PUB	LOW
740732	RES FUND MWR FCLTY	LOW
740735	RESTAURANT, BASE	LOW
740873	THEATER, BSE	LOW
740883	YOUTH CEN	LOW
740884	CHILD CARE CEN	LOW
750211	STADIUM	LOW
750347	CRT, TENNIS	LOW
750348	PLATFORM TENNIS	LOW
750349	CRT, RECTN	LOW
750371	O/D RECTN PAVILION	LOW
750422	GOLF CLUBHSE/EQUIP	LOW
750426	GOLF CRS 9 HOLE	LOW
750427	GOLF CRS 18 HOLE	LOW
750429	GOLF DRIVING RANGE	LOW
750581	MISC O/RECTN FCLTY	LOW
750582	CIV O/RCTN FCLTY	LOW
750611	FAM CAMPS	LOW
750612	FAM CAMP SPT FAC	LOW
750663	POV WASHRACK	LOW
750811	SWIMMERS BATH HSE	LOW
750812	SWIM POOL CONSOL	LOW
750813	SWIM POOL, AMN	LOW
750815	SWIM POOL, NCO	LOW
750817	SWIM POOL, OFF	LOW
750819	SWIM POOL WTR TRMT	LOW
760511	CEMETERY	LOW
811144	TOTAL ENG PLT BLDG	LOW
812223	PRIM DISTR LNE OH	LOW
812224	SEC DISTR LNE OH	LOW
812225	PRIM DISTR LNE UG	LOW
812226	SEC DISTR INE UG	LOW
812921	ELEC ACFT OUTLETS	LOW
821111	CQAL YARD	LOW

824462	GAS METER FCLTY	LOW
824464	GAS MAINS	LOW
824466	GAS ODORIZER FCLTY	LOW
824468	GAS VALVE FCLTY	LOW
831172	DSPL RADACT WST	LOW
832255	IND WST MAIN	LOW
832266	SAN SEWAGE MAIN	LOW
833354	S/WASTE DISPL FCLT	LOW
833356	S/WASTE REPOSITORY	LOW
833360	S/WASTE DSPL LNDFI	LOW
841161	WTR SUP MAINS	LOW
841162	WTR COML SUP	LOW
841163	WTR SURFACE SUP	LOW
841423	WTR STOR t)AM	LOW
841425	WTR STOR RESERVOIR	LOW
841427	WTR TANK STOR	LOW
842245	WTR DISTR MAINS	LOW
843314	FR PROTEC WTR MAIN	LOW
843316	WTR FR PMP STN	LOW
844367	WTR SUP STOR N/POT	LOW
844368	WTR SUP N/POT	LOW
845362	WTR SUP N/POT BLDG	LOW
845363	WTR SUP MAIN N/POT	LOW
851142	ROAD BRIDGE	LOW
851147	ROAD	LOW
852262	VEH PKNG, NIORGN	LOW
852282	WALKWAY, BRIDGE	LOW
852287	WALKWAY, CV	LOW
872248	FENCE, INTERIOR	LOW
880222	MAN FR ALRM/I SYS	LOW
880223	MAN FR ALRM/E SYS	LOW
890144	CNPRS AIR DISTR	LOW
890152	LOAD & UNLOAD AREA	LOW
890153	LOAD&UNLQAD CONVYR	LOW
890154	LOAD & UNLOAD G-CR	LOW
890156	LOAD & UNLOAD PIT	LOW
890158	LOAD&UNLOAD PLATFM	LOW
890171	MISC STOR TANK	LOW
890181	UTIL LNE DUCTS	LOW
890185	UTILIDOR	LOW
890267	PNEUMATIC TUBE	LOW
890311	NRC SPT FCLTY RELO	LOW
911125	LAND,DONATION PVT	LOW
911127	LAND,DONATION S&L	LOW
911142	LAND,FEE,CONDEMN	LOW
912261	LAND, P/D, E 0	LOW
912262	LAND, P/D, P,L,O,	LOW
912268	LAND, P/D, PMT	LOW
912269	LAND, P/D, NOTE	LOW
913384	LAND, LSN, GEN USE	LOW
913393	LAND, PMT, GEN USE	LOW
914263	LAND, PUB, E.O.	LOW
921164	LAND ESMT CLEAR/T	LOW
921167	LAND ESMT RESTR/T	LOW

921168	LAND ESMT R-O-W/T	LOW
921174	LAND ESMT CLEAR/P	LOW
921177	LAND ESMT RESTR/P	LOW
921178	LAND ESMT R-O-W/P	LOW
922274	LAND, LEASE S&L	LOW
922276	LAND LEASE RECAP	LOW
922278	LAND, LEASE, PVT-E	LOW
922292	LAND LEASE & SUSP	LOW
922294	LAND, INLEASE, MIN	LOW
922298	LAND, INLEASE, SP	LOW
922355	FGN LAND LEASE U99	LOW
922357	FGN LAND LEASE 99Y	LOW
923322	FGN LAND AGMT BSE	LOW
923346	FGN LAND COMANDER	LOW
923366	FGN LAND REQ	LOW
923376	FGN LAND MISC	LOW
112211	TAXIWAY	AVERAGE
113321	APRON	AVERAGE
116116	SHFLD TO & IDG ZON	AVERAGE
116662	PAD, DANGRS CARGO	AVERAGE
116664	PAD. POWER CHK	AVERAGE
116665	PAD. PWR CHK W/SPR	AVERAGE
116666	PAD. WRMUP HLDG	AVERAGE
116672	PAD.ACFT WASH RK	AVERAGE
116933	BUTT. FIRING-IN	AVERAGE
121115	AVFUEL DISPEN	AVERAGE
121124	HYDR FL, BLDG	AVERAGE
123335	VEH FL STN	AVERAGE
124131	OPG STOR,AVGAS	AVERAGE
124132	OPG STOR,AVLUBE	AVERAGE
124134	OPG STOR,DIESEL	AVERAGE
124135	OPG STOR,JET FL	AVERAGE
124137	OPG STOR,MOGAS	AVERAGE
124138	OPG STOR,SOLVENTS	AVERAGE
124139	OPG ST OR,SP FL	AVERAGE
125554	PIPELINE LP	AVERAGE
125977	PMP STN, LF	AVERAGE
126925	LF FIL STD, TRK	AVERAGE
126926	LF STD UNLOAD	AVERAGE
131111	COMM FCLTY	AVERAGE
131114	RAD, MARS	AVERAGE
131115	COMM, RCVR	AVERAGE
131116	COMM, TMTR RCVR	AVERAGE
131111	RAD RELAY FCLTY	AVERAGE
131119	AFR&T STN	AVERAGE
131133	COMM, SCATTER	AVERAGE
131134	AIRCOM REL CEN	AVERAGE
131135	AUTO SWITCHING CEN	AVERAGE
131136	AIRCOM R @	AVERAGE
131137	AIRCOM TMTR	AVERAGE
131138	HF AIRCOM MICROW R	AVERAGE
131139	AIRCOM RADIO RELAY	AVERAGE
131143	GAP FILLER	AVERAGE
136635	LIGHT, BEACON	AVERAGE

136661	LIGHT, APPROACH	AVERAGE
136662	LIGHT, OBST	AVERAGE
136664	LIGHT, RNWY	AVERAGE
136666	LIGHT, AFLD SP	AVERAGE
136667	LIGHT, TWY	AVERAGE
141154	CRSH BT CRW STN	AVERAGE
141165	EOD	AVERAGE
141173	GM ERECTOR ENCL	AVERAGE
141175	GM LCH CON	AVERAGE
141177	GM SHLTR	AVERAGE
141183	HG, ALERT	AVERAGE
141184	READY SHLTR FAC	AVERAGE
141383	AUDIO-VISUAL FCLTY	AVERAGE
141385	MOTION PIC LAB	AVERAGE
141387	FILM STOR VAULT	AVERAGE
141389	7V PROD FCLTY	AVERAGE
141391	RDR TMTR COMP BLDG	AVERAGE
141392	RDR TMTR BLDG	AVERAGE
141393	SCANNER BLDG	AVERAGE
141411	RADOME TWR BLDG	AVERAGE
141421	RDR TWR BLDG	AVERAGE
141447	DIR CEN FCLTY	AVERAGE
141449	DIR CC FCLTY	AVERAGE
141453	OPS, BSE	AVERAGE
141454	OPS, SP	AVERAGE
141455	OPS, ORD CON PT	AVERAGE
141456	OPS AFSS	AVERAGE
141459	READINESS, CRW	AVERAGE
141481	ACW OPS DEWLINE	AVERAGE
141489	ACW OPS BLDG	AVERAGE
141626	WEA RAWINSONDE	AVERAGE
141627	SHLTR, WEA INSTM	AVERAGE
141629	REP WEA OBS STN	AVERAGE
141635	R/SONDE CON BLDG	AVERAGE
141649	GLOBAL WKA CEN	AVERAGE
141743	PHOTO LAB, BSE	AVERAGE
141745	PHOTO LAB, RECON	AVERAGE
141747	WS-430B SPT BLDG	AVERAGE
141753	SQ OPS	AVERAGE
141764	INTEGR SPT FCLTY	AVERAGE
141783	TRML, AIR F/P	AVERAGE
141784	TRML, AIR PSGR	AVERAGE
141785	TRML, FLEET SVC	AVERAGE
141787	CNSOL/CNT PT	AVERAGE
141911	MSL OPS BLDG	AVERAGE
141912	RETRY VEH BLDG	AVERAGE
141913	SP FL FCLTY	AVERAGE
141914	MSL GDNC FCLTY	AVERAGE
141915	MSL TSFR BLDG	AVERAGE
149511	GDNC STN, P/ACFT	AVERAGE
149512	MSL LCH FCLTY	AVERAGE
149514	GDNC STN MSL	AVERAGE
149516	GDNC STN, ACFT	AVERAGE
149621	WD MEA SET ANGMQ20	AVERAGE

149622	CEILOMETER ANGMQ13	AVERAGE
149623	TRANSMSTR ANGMQ10	AVERAGE
149624	TEM/HUM MEA SET	AVERAGE
149625	DIG WIND MEA SYS	AVERAGE
149626	LGT WAR SET ANGMH7	AVERAGE
149627	RDR MET SET C-BAND	AVERAGE
149628	COLD FOG DSPAL SYS	AVERAGE
149629	RDR CLD DET SET	AVERAGE
149711	MSL SHAFT, ACCES	AVERAGE
149811	TUNNEL	AVERAGE
149962	TWR, CON	AVERAGE
149967	TWR, OBS	AVERAGE
149968	TWR, SP	AVERAGE
151153	PIER, CARGO	AVERAGE
151155	PIER, LF UNLOAD	AVERAGE
152111	WHARF	AVERAGE
154452	WTR FRONT IMPR	AVERAGE
163311	LF O/SHORE UNLOAD	AVERAGE
164211	HAR MAR IMPR	AVERAGE
171141	ARMORY, AF ACADEMY	AVERAGE
171152	ACAD LECT HALL	AVERAGE
171155	ACAD EXHBT FCLTY	AVERAGE
171158	BAND CENTER	AVERAGE
171211	FLY TNG CLASSROOM	AVERAGE
171213	FLT TNG UPT/UNT	AVERAGE
171356	LIB, TECH & PROF	AVERAGE
171393	NAV TNG CEL/PLANT	AVERAGE
171443	RES FORCES G/TNG S	AVERAGE
171445	RES FORCES OPL TNG	AVERAGE
171447	RES FORCES C-E TNG	AVERAGE
171449	RES FORCES A-E TNG	AVERAGE
171450	RES FORCES MED TNG	AVERAGE
171471	RG CON HSE	AVERAGE
171617	TNG AID SHP	AVERAGE
171618	FLD TNG FCLTY	AVERAGE
171619	RSU	AVERAGE
171621	TECH TNG CLASSROOM	AVERAGE
171623	TECH TNG LAB/SHP	AVERAGE
171625	HIGH-BAY TECH TNG	AVERAGE
171627	ATC TECH TNG SPT	AVERAGE
171628	LCH OPS TNG FAC	AVERAGE
171712	TGT INTEL TNG	AVERAGE
171813	SAFETY ED FCLTY	AVERAGE
171815	NCO PROF ED CEN	AVERAGE
171822	RECRT PROCESSING	AVERAGE
171833	BMT (ATC)	AVERAGE
171844	OFF TNG (ATC)	AVERAGE
171851	AU PROF/TECH ED	AVERAGE
171873	A/PORT TNG FCLTY	AVERAGE
171875	MUN LOAD CREW TNG	AVERAGE
179511	FIREMAN TNG FCLTY	AVERAGE
214469	T/ERCTR TST FCLTY	AVERAGE
217712	SHP AVIONICS	AVERAGE
217713	ECK POD SHP & STOR	AVERAGE

217722	SHP, ICBM/TAC C-E	AVERAGE
217735	SHP, ELCT O&T/D	AVERAGE
217736	SHP, RADOM O&T/D	AVERAGE
217742	AFCS MAINT FCLTY	AVERAGE
217752	SHP MET EQUIP	AVERAGE
217762	SHP NAVAID	AVERAGE
217812	SHP, RG/WNG SYS CE	AVERAGE
218882	SHP,RECRT TAILOR	AVERAGE
221221	PROD, ACFT	AVERAGE
221223	PROD, ACFT SPT	AVERAGE
221228	PROD ACFT FIN ASMP	AVERAGE
221229	PROD ACFT COMP MFT	AVERAGE
221231	PROD ACFT ENG OVHL	AVERAGE
222222	PROD, GM	AVERAGE
222223	PROD, GM ENG	AVERAGE
222224	PROD, GM SPT EQUIP	AVERAGE
222225	PROD, GM COMP MFT	AVERAGE
226226	PROD, AMMO EX/TX	AVERAGE
226227	PROD, PRPL FL OX	AVERAGE
227227	PROD, ELCT COMM	AVERAGE
227228	PROD, RAV/GUID SYS	AVERAGE
228228	PROD, MISC PROC	AVERAGE
228229	PROD PIT CARG&GEOP	AVERAGE
228231	PROD PLT LITH&DIST	AVERAGE
371475	MSL INSTM STN	AVERAGE
371484	MSL RDR STN	AVERAGE
371485	MSL THODLIST STN	AVERAGE
371486	MSL COMM STN	AVERAGE
371923	TST RP COMPLX	AVERAGE
390125	ADYN W-T SUBSON	AVERAGE
390127	ADYN W-T SUPSON	AVERAGE
390128	ADYN W-T TRNSON	AVERAGE
390129	ADYN W-T HYPSON	AVERAGE
390157	GDYN W-T SUPSON	AVERAGE
390171	A/RSCH TST	AVERAGE
390224	ARMT RSCH TST STRU	AVERAGE
390311	ELCT RSCH RDR	AVERAGE
390381	ELCT RSCH NAVAID	AVERAGE
390531	MSL LCH TST FCLTY	AVERAGE
390551	MSL LDG TST FCLTY	AVERAGE
390562	MSL STOR FL	AVERAGE
390611	PRPLN ENG T/FL SYS	AVERAGE
390612	PRPLN ENG T/STD	AVERAGE
390614	PRPLN ENG T/C	AVERAGE
390719	TST TRACK	AVERAGE
390915	RSCH COM STN COMPX	AVERAGE
411123	STOR, DELM WTR	AVERAGE
411127	STOR, WTR/ALCOHL	AVERAGE
411128	STOR, SP LIQ	AVERAGE
411131	STOR, SP LIQ	AVERAGE
411132	STOR, SP LIQ	AVERAGE
411134	STOR, SP LIQ	AVERAGE
411135	STOR, SP LIQ	AVERAGE
411137	STOR, SP LIQ	AVERAGE

411138	STOR, SP LIQ	AVERAGE
411139	STOR, SP LIQ	AVERAGE
422253	STOR, SP LIQ	AVERAGE
422256	STOR, SP LIQ	AVERAGE
422257	STOR, SP LIQ	AVERAGE
422258	STOR, SP LIQ	AVERAGE
422259	MSL STG FAC	AVERAGE
422264	STOR, IGLOO	AVERAGE
422265	STOR SPARE INERT	AVERAGE
422271	STOR MODULE BARCAD	AVERAGE
422275	ANCLY EXPLO FCLTY	AVERAGE
423111	AMMO STOR L/PRPL	AVERAGE
441257	HAZARD STOR, DEP	AVERAGE
442257	HAZARD, STOR, BSE	AVERAGE
451134	OPEN STOR DEP	AVERAGE
452252	OPEN STOR,BSE SUP	AVERAGE
452255	CE STOR OPEN	AVERAGE
452258	OPN STOR F/T MGT	AVERAGE
452775	OPEN STOR R-D	AVERAGE
510125	NED COMD + ADMIN	AVERAGE
510126	MED/DENT ED & TNG	AVERAGE
510147	PHARMACY	AVERAGE
510148	PHYSICAL THERAPY	AVERAGE
510149	RADIOLOGY	AVERAGE
510175	FLT SURG CLINIC	AVERAGE
510176	ENVIRO HEALTH	AVERAGE
510212	FOOD SERVICE	AVERAGE
510275	NURSING SERVICES	AVERAGE
510278	AEROMED STG FCLTY	AVERAGE
510915	PATIENT WELFARE	AVERAGE
530155	BLOOD PROCESS LAB	AVERAGE
530156	DRUG ABUSE DET LAB	AVERAGE
530411	AF ENV HEALTH LAB	AVERAGE
530511	CLIN LAB EPDML	AVERAGE
530634	MEDICAL FOOD INSP	AVERAGE
540242	AREA DEN LAB	AVERAGE
540243	DEN CLINIC	AVERAGE
550145	OCC MEDICINE SVC	AVERAGE
550147	NED AID STATION	AVERAGE
610111	AREA DEF CNSL OFC	AVERAGE
610112	LAW CENTER	AVERAGE
610119	FAM HSG MGT OFC	AVERAGE
610121	VEH OPS ADMIN	AVERAGE
610122	BSE SUP ADMIN	AVERAGE
610123	AF PIT ADMIN OFC	AVERAGE
610127	BASE ENGR ADM:[N	AVERAGE
610128	BASE PERSONNEL OFC	AVERAGE
610129	WPN SYS/M MGT FCLT	AVERAGE
610142	TRAFFIC MGT FCLTY	AVERAGE
610144	MUN MAINT ADMIN	AVERAGE
610241	ORDERLY RM IN DORM	AVERAGE
610311	DOC STG FCLTY	AVERAGE
610911	SOCIAL ACT FCLTY	AVERAGE
610913	DISASTER PREP	AVERAGE

610915	AFSOI OFFICE	AVERAGE
690252	BILLBOARD	AVERAGE
690432	FLAG POLE, BSE	AVERAGE
711111	FAM HSG, CAPEHART	AVERAGE
711121	FAM HSG, WHERRY	AVERAGE
711131	FAM HSG, LANHAM	AVERAGE
711142	FAM HSG APPR FY70A	AVERAGE
711143	FAM HSG APPR 50-69	AVERAGE
711144	FAM HSG APPR PFY50	AVERAGE
711151	FAM HSG, SUR COMOD	AVERAGE
711161	FAM HSG, DEUTCHMRK	AVERAGE
711171	FAM HSG, YEN	AVERAGE
711181	FAX HSG, OTHER	AVERAGE
711191	FAM HSG RELO	AVERAGE
711211	FAM HSG, RENT GUAR	AVERAGE
711221	FAM HSG, LEASED	AVERAGE
711231	FAM HSG USA	AVERAGE
711311	FAM HSG ATCH GARGE	AVERAGE
711312	FAM HSG ATCH CARP	AVERAGE
712244	FAM HSG, TLR	AVERAGE
714124	ATNDT SAN FCLTY	AVERAGE
721121	PRC FCLTY	AVERAGE
721123	FED PRISON FCLTY	AVERAGE
721312	DORM AM PP/PCS-STD	AVERAGE
723155	LOUNGE, DAYROOM	AVERAGE
723385	KITCHEN, CEN PREP	AVERAGE
723388	KITCHEN, IN-FLT	AVERAGE
723392	SAN LATRINE	AVERAGE
730142	FR STN	AVERAGE
730145	FR TWR COMM CEN	AVERAGE
730147	FR HOSE HSE	AVERAGE
730151	FORESTRY GUARD STN	AVERAGE
730182	BAKERY, BREAD	AVERAGE
730186	KITCHEN, PASTRY	AVERAGE
730441	EDUCATION CEN	AVERAGE
730724	PLT, ICE	AVERAGE
730774	CHAPEL HOSP	AVERAGE
730775	RECTORY	AVERAGE
730781	SCH DEPN D H	AVERAGE
730782	SCH DEPN D H	AVERAGE
730783	SCH DEPN D H	AVERAGE
730784	SCH DEPN D H	AVERAGE
730785	SCH DEPN D H	AVERAGE
730786	SCH DEPN D H	AVERAGE
730788	SCH DEPN D H	AVERAGE
730789	SCH DEPN D H	AVERAGE
730833	SP CEN CON	AVERAGE
730835	SP OPERATIONS	AVERAGE
730836	RES FR TEAM FCLTY	AVERAGE
730838	MASTER SRVLL & CON	AVERAGE
740111	ENCLOSED MALL	AVERAGE
740253	FAM SPT CEN	AVERAGE
740266	STORE, COMMISSARY	AVERAGE
740267	STORE, CADET	AVERAGE

740269	BSE PACKAGE STOR	AVERAGE
740316	RECREATION CENTER	AVERAGE
740455	TRN FAM, A/PORT	AVERAGE
740457	TLF (NAF)	AVERAGE
740469	TRN LODGE SPT BLDG	AVERAGE
740669	MULTI PURP REC BLD	AVERAGE
740673	FLD HSE	AVERAGE
740677	SWIM POOL, INDOR	AVERAGE
740681	CADET SOCIAL CEN	AVERAGE
740717	RED CROSS OFFICE	AVERAGE
740733	CIV FUND MWR BLDG	AVERAGE
750172	ATHLT FLD BASEBALL	AVERAGE
750175	ATHLT FLD FB/SOC	AVERAGE
750177	ATHLT FLD TRACK	AVERAGE
750178	ATHLT FLD SOFTBALL	AVERAGE
750179	ATHLT FLD STD	AVERAGE
750583	RIDING STABLES	AVERAGE
750835	THEATER OUTDOOR	AVERAGE
760111	MUSEUM BLDG	AVERAGE
760512	MONUMENTS/MEMORL	AVERAGE
812926	EXTERIOR AREA LTG	AVERAGE
812928	TRAFFIC LIGHTS	AVERAGE
821112	HTG FL OIL STOR	AVERAGE
823111	HT GAS SOURCE	AVERAGE
823243	GAS COMPRESSOR	AVERAGE
823244	GAS STOR	AVERAGE
823248	GAS VAPORIZOR	AVERAGE
831145	COMB D&I WW TRMT	AVERAGE
831157	IND WST FL-SP COLL	AVERAGE
831165	SEWAGE TRMT & DSPL	AVERAGE
831169	SEWAGE SEPTIC TANK	AVERAGE
831171	RADACT WST BU/SITE	AVERAGE
831173	DML & BURN FCLTY	AVERAGE
832267	SAN SEWAGE PMP STN	AVERAGE
833358	GRBG CNT WASH RACK	AVERAGE
841166	WTR WELL	AVERAGE
841169	BLDG WTR SUP	AVERAGE
842246	WTR HYDRANTS	AVERAGE
842249	WTR PMP STN	AVERAGE
843315	FR HYDR	AVERAGE
843319	FR PROTEC WTR S7'OR	AVERAGE
851143	CURBS & GUTTERS	AVERAGE
851145	DRIVEWAY	AVERAGE
852261	VEH PKNG, OPS	AVERAGE
852267	VEH/EQUIP PKNG,R-D	AVERAGE
852269	VEH PKNG, REFL	AVERAGE
852271	PVT VEH PKNG COMPD	AVERAGE
852273	ACFT SPT/E STOR YD	AVERAGE
852289	SIDEWALK	AVERAGE
860612	RR BRIDGE	AVERAGE
860616	RR SHLTR PERS	AVERAGE
860617	RR TRACKAGE	AVERAGE
871183	STRM DRN DSPL	AVERAGE
871185	STRM DRN PMP STN	AVERAGE

871187	RETAINING WALL	AVERAGE
872245	FENCE, BOUNDARY	AVERAGE
872841	SCTY ALARM SYS	AVERAGE
872845	SCTY GUARD TWR	AVERAGE
872911	REVEMENT PRE-ENG	AVERAGE
880211	CLSD HD A/SPRINK	AVERAGE
880212	OPN HD DELUG SYS	AVERAGE
880221	AUTO FR DTECTN SYS	AVERAGE
880231	C02 FR SYS	AVERAGE
880232	FOAM FR SYS	AVERAGE
880233	OTHER FR SYS	AVERAGE
880234	HALON 1301 FR SYS	AVERAGE
880236	FOAM SYS	AVERAGE
890111	STOR&PLT REG EQUIP	AVERAGE
890126	A/C WINDOW UNITS	AVERAGE
890127	SOL N-R-G COLL SYS	AVERAGE
890151	TRAMWAY AERIAL	AVERAGE
890161	SPT STRU	AVERAGE
890187	UTIL VAULT	AVERAGE
890197	WEIGHING SCALE	AVERAGE
890271	EMCS CENTRAL STN	AVERAGE
890272	EMCS FIELD EQUIP	AVERAGE
890273	EMCS DATA LINKS	AVERAGE
911146	LAND, FEE, PUR	AVERAGE
111111	RUNWAY	HIGH
111115	OVERRUN PAVED	HIGH
116667	PAD, CALIBRATION	HIGH
116668	PAD, LCH	HIGH
116922	ACFT AREST SYS	HIGH
116945	DEFLECTOR, BLAST	HIGH
121122	HYDR FL, SYS	HIGH
122111	MAR FL DISPEN SYS	HIGH
131132	SAT COMM GND TRML	HIGH
141446	CC FCLTY	HIGH
141461	USAF COMMAND POST	HIGH
141763	TECH LAB	HIGH
141765	LAB, Q/C DEP	HIGH
141766	TECH LAB LF ANA	HIGH
141821	MAT PROCESS DEP	HIGH
171157	NATORM PHYS ED	HIGH
171212	FLT SIMLTR TNG	HIGH
171214	PHYSL TNG	HIGH
171853	USAFA ACADEMIC TNG	HIGH
211116	HG, MAINT DEP	HIGH
218868	LAB, PME	HIGH
310911	SC LAB PHYSICS	HIGH
310912	SC LAB SONIC	HIGH
310913	SC IAAB ASTROPHY	HIGH
310914	SC LAB PERS RSCH	HIGH
310915	SC LAB CML	HIGH
310916	SC LAB GRD ELECT	HIGH
310917	SC LAB NUCLEON	HIGH
310919	SC LAB GEOPHY	HIGH
310921	SC IAAB MED	HIGH

310922	SC LAB H/ENRG	HIGH
310923	SC LAB SOLAR	HIGH
310924	SC LAB RADIAT	HIGH
310925	SC LAB A/ENVRMT	HIGH
310926	SC LAB DY-ENVRMTL	HIGH
310927	SC LAB MET	HIGH
310928	SC LAB CIVIL ENRG	HIGH
310929	SC LAB BIOLOG	HIGH
310931	SC IAAB LASER	HIGH
310932	SC ILAB AVIONICS	HIGH
310933	SC LAB MATERIALS	HIGH
310943	NUC ENRG TST BLDG	HIGH
311112	ACFT DY RSH LAB	HIGH
311114	ACFT DY RSCH ENG	HIGH
311115	ACFT DY RSH TEST	HIGH
311171	ACFT RSCH LAB	HIGH
311173	ACFT RSCH ENG	HIGH
311174	ACFT RSCH TEST	HIGH
312472	MSL/SPACE RSCH LAB	HIGH
312476	MSL/SPACE RSCH ENG	HIGH
312477	MSL/SPACE RSC ENG	HIGH
312941	SATEL CON STATION	HIGH
315222	ARMT R-L BALLIS	HIGH
315236	ARMT RSCH ENG	HIGH
315237	ARMT RSCH TEST	HIGH
315944	LAB WPN GDNC	HIGH
316333	AMMO EXP & TOX LAB	HIGH
316337	AMMO EXP & TOX TST	HIGH
317311	ELEC RSCH LAB	HIGH
317315	BLEC RSCH ENG	HIGH
317316	ELEC RSCH TST	HIGH
317932	AVIONICS RSCH LAB	HIGH
318612	PRPLN R-L A/BRETG	HIGH
318614	PRPLN R-L NA/BRETG	HIGH
318615	PRPLN R-L ELEC	HIGH
318632	PRPLN R-L FUEL/LUB	HIGH
319441	EQUIP RSCH LAB	HIGH
319442	EQUIP RSCH ENG	HIGH
319443	EQUIP RSCH TEST	HIGH
319946	MAT RSCH TEST LAB	HIGH
319951	TST TRACK BLDG	HIGH
319995	RSCH EQUIP STOR	HIGH
321123	PROTO ML CONST&A	HIGH
510001	COMPOSITE MED	HIGH
510143	PATHOLOGY	HIGH
510342	OBSTETRICAL SVC	HIGH
510411	AF CLINIC	HIGH
510672	SURGICAL SERVICE	HIGH
510712	HOSP CEN STERILIZN	HIGH
530311	RADL HEALTH LAB	HIGH
610243	HQ GROUP	HIGH
610249	HQ WG	HIGH
610281	HQ CENTER	HIGH
610282	HQ AF	HIGH

610284	HQ MAJOR COMD	HIGH
610285	HQ NUMBERED AF	HIGH
610286	HQ,NAMED/NO DIV	HIGH
610287	HQ,SPECIFIED	HIGH
610711	DPI	HIGH
610811	ADMIN OFC, NON-AF	HIGH
721215	DH, AMN IN DORM	HIGH
721311	DORM, RECRUITS	HIGH
721315	DORM,VAQ	HIGH
722345	FAST FOOD SVC	HIGH
722351	DH, AMN (DET)	HIGH
722356	DH, OFF (DET)	HIGH
724415	OQ	HIGH
724417	VOQ (01-010)	HIGH
724433	CADET QTRS	HIGH
730834	SP DES FLIGHT POSN	HIGH
740443	TLF (APPR)	HIGH
811145	ELEC PWR GEN PLT	HIGH
811147	BLEC E/PWR GEN PIT	HIGH
811149	BLEC PWR STN BLDG	HIGH
813228	ELEC SWITCH STN	HIGH
813231	ELEC SUBSTATION	HIGH
821113	HTG FR CEN PIT	HIGH
821115	HTG PIT 750/3500MB	HIGH
821116	HTG PIT OV 3500 MB	HIGH
821117	HTG FCLTY BLDG	HIGH
821155	STEAM PIT IND	HIGH
821156	STEAM FCLTY BLDG	HIGH
822245	HOT WTR MAINS	HIGH
822248	HOT WTR PMP STN	HIGH
822265	STEAM HT MAINS	HIGH
822268	CONDEN PMP STN	HIGH
826122	A/C PIT 25-100 TN	HIGH
826123	A/C PIT OVER100 TN	HIGH
827111	C/WTR EX/DISTR LNE	HIGH
831155	IND WST TRMT&DSPL	HIGH
831168	WST TRMT BLDG	HIGH
833361	H/WASTE DSPL LNDFI	HIGH
841165	WTR SUP TRMT	HIGH
872247	FENCE, SCTY	HIGH
880216	PA SPRINK SYS	HIGH
880217	AFFF PA SPRINK SYS	HIGH
880218	HI EXPAN FOAM SYS	HIGH
880235	DRY CHEM SYS	HIGH
890121	A/C PIT 5 TO 25 TN	HIGH
890123	AIR COND PLT BLDG	HIGH
890124	A/C FR CEN PIT	HIGH
890125	A/C PLT, LS 5 TN	HIGH
890134	CMPRS AIR PIT	HIGH
890136	CMPRS AIR PIT BLDG	HIGH
890269	CATHOD PROTEC SYS	HIGH